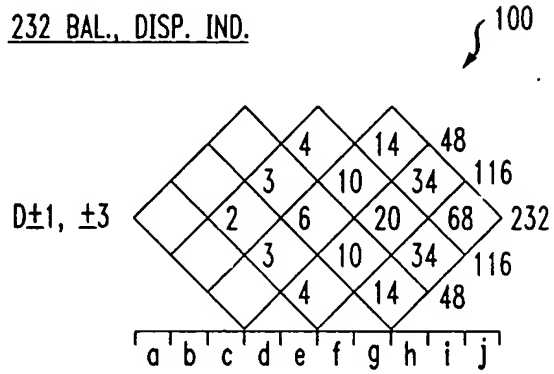
FIG. 1A


232 BAL., DISP. IND.
100
D±1, ±3
4
14
48
3
10
34
116
2
6
20
68
232
3
10
34
116
4
14
48
a b c d e f g h i j

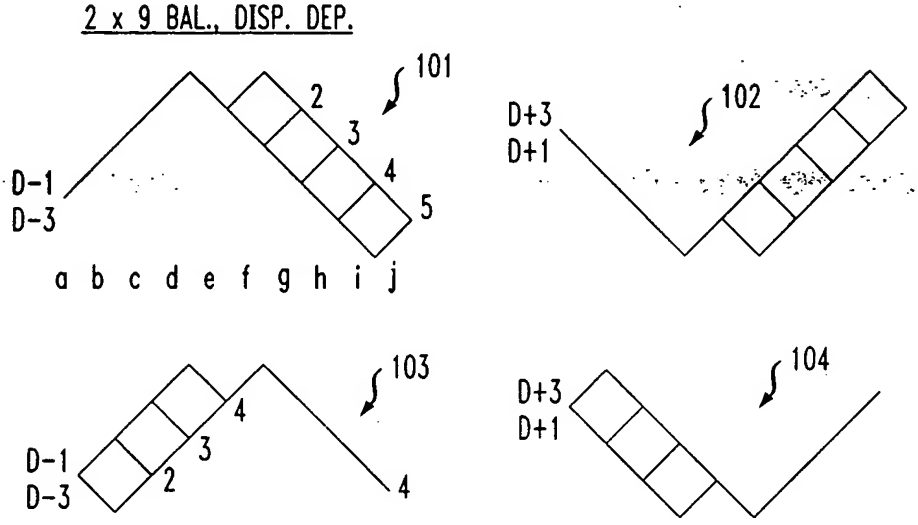

2 x 9 BAL., DISP. DEP.
101
D-1
D-3
2
3
4
5
a b c d e f g h i j
102
D+3
D+1
103
D-1
D-3
2
3
4
4
104
D+3
D+1

FIG. 1B

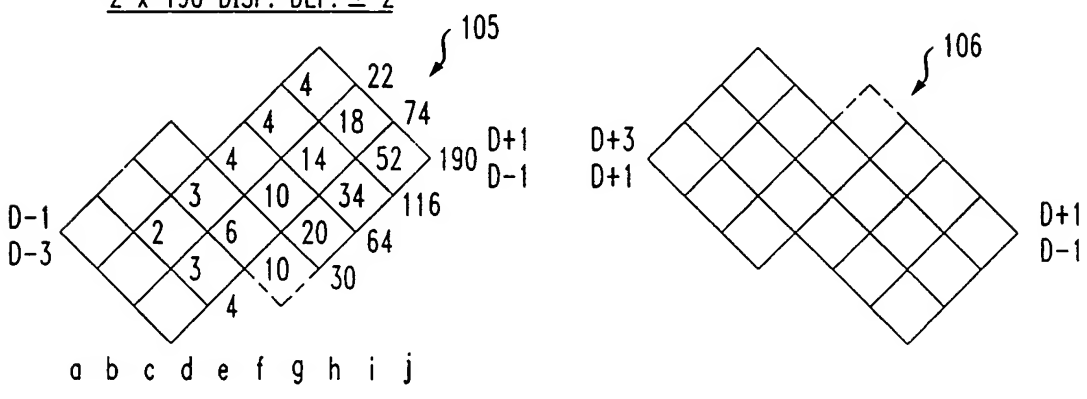

2 x 190 DISP. DEP. ± 2
105
4
22
4
18
74
4
14
52
190
D+1
D-1
3
10
34
116
D-1
D-3
2
6
20
64
3
10
30
4
a b c d e f g h i j
106
D+3
D+1
D+1
D-1

FIG. 1C

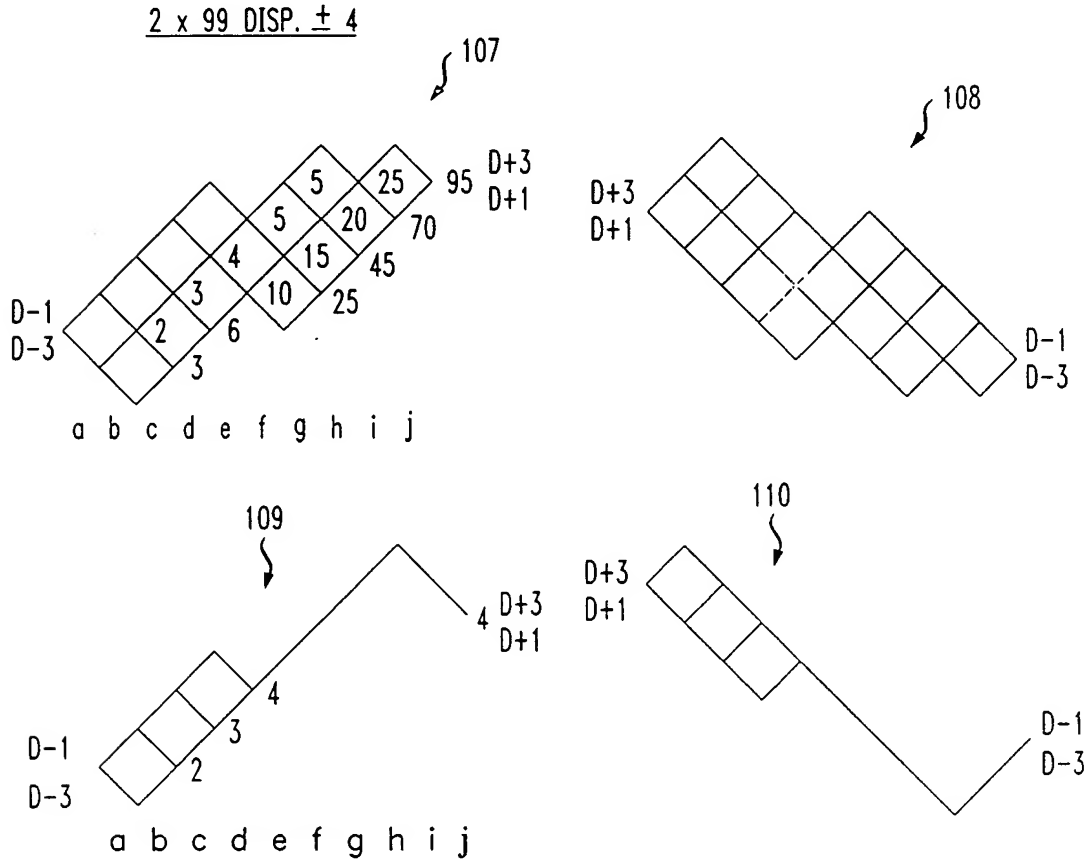

2 x 99 DISP. ± 4
107
95
D+3
D+1
5
25
5
20
70
4
15
45
3
10
25
2
6
3
D-1
D-3
a b c d e f g h i j
108
D+3
D+1
D-1
D-3
109
4
D+3
D+1
4
3
2
D-1
D-3
a b c d e f g h i j
110
D+3
D+1
D-1
D-3

FIG. 2A

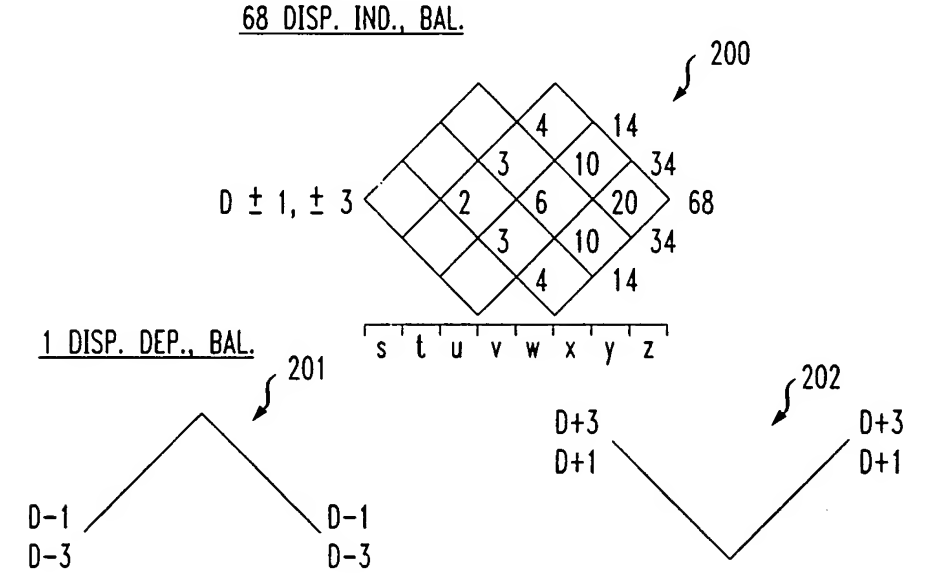

68 DISP. IND., BAL.
200
4
14
3
10
34
D ± 1, ± 3
2
6
20
68
3
10
34
4
14
s t u v w x y z
1 DISP. DEP., BAL.
201
D-1
D-3
D-1
D-3
202
D+3
D+1
D+3
D+1

FIG. 2B

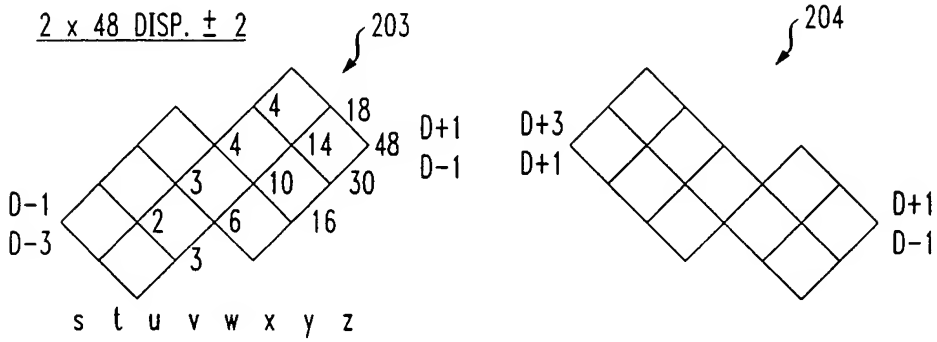
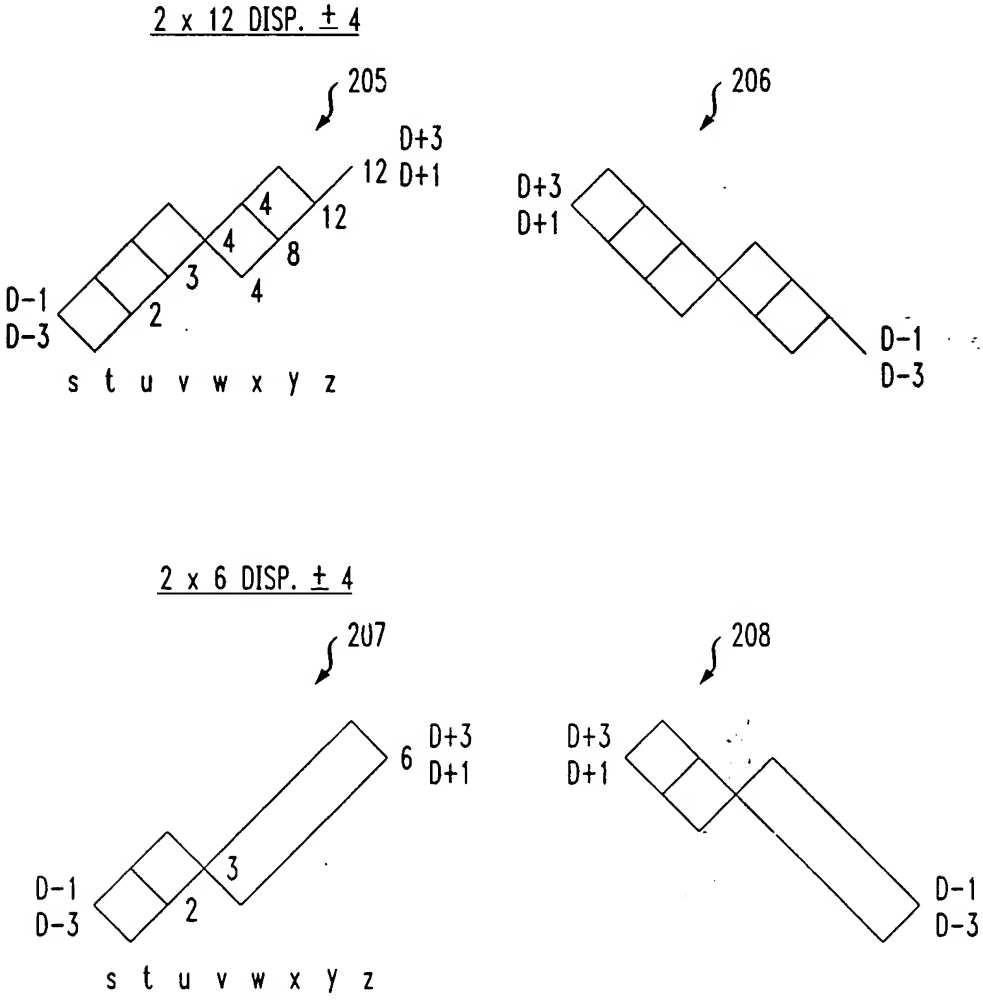

2 x 48 DISP. ± 2
203
4
18
4
14
48
D+1
D-1
3
10
30
D-1
D-3
2
6
16
3
s t u v w x y z
204
D+3
D+1
D+1
D-1

FIG. 2C


2 x 12 DISP. ± 4
205
D+3
12 D+1
4
4
12
3
4
8
D-1
D-3
2
s t u v w x y z
206
D+3
D+1
D-1
D-3
2 x 6 DISP. ± 4
207
6
D+3
D+1
3
D-1
D-3
2
s t u v w x y z
208
D+3
D+1
D-1
D-3

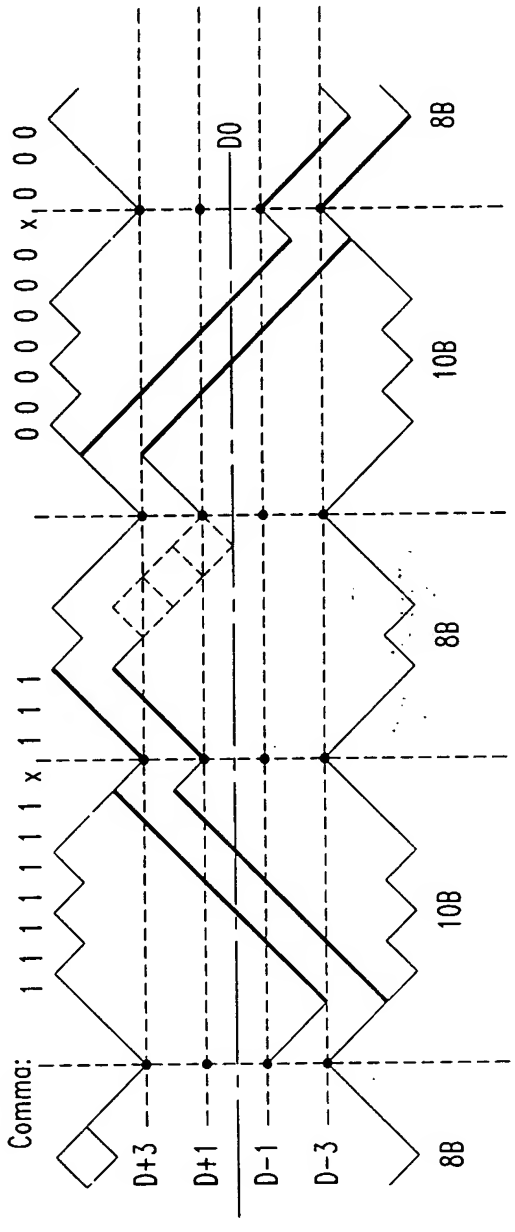
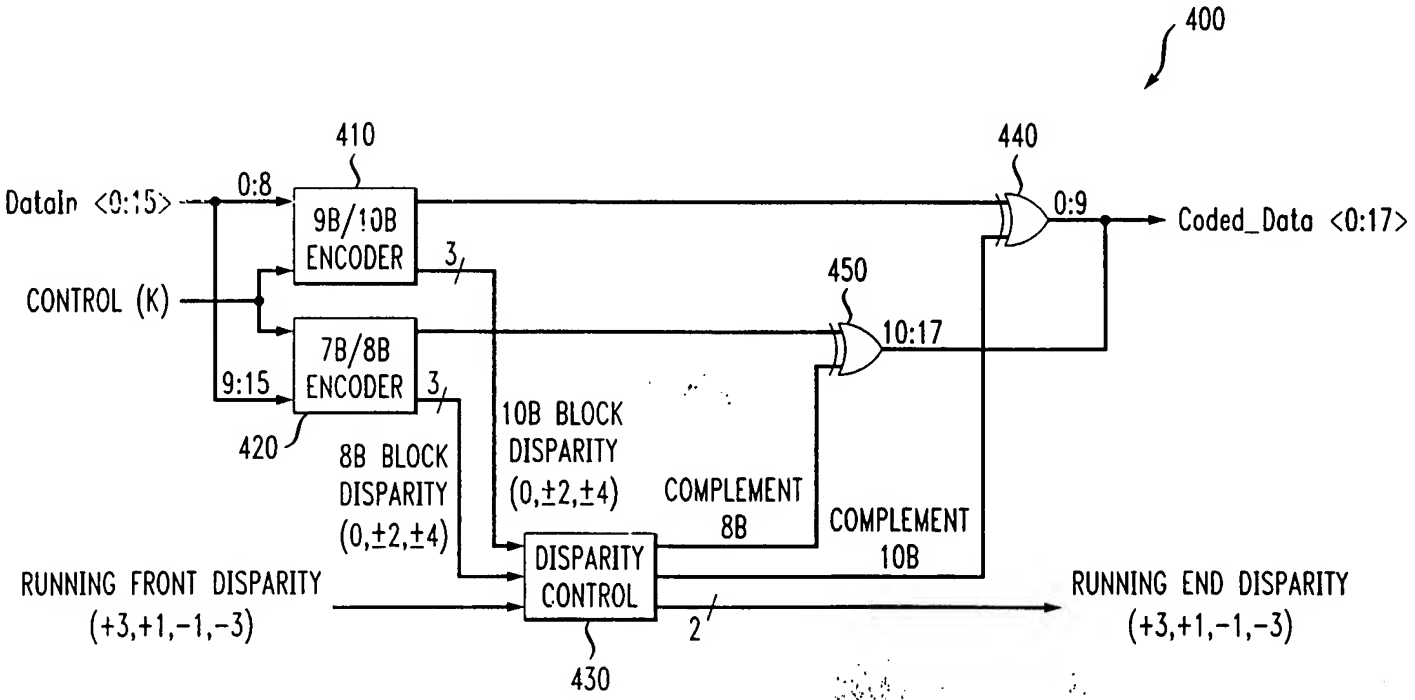

Comma:
1 1 1 1 1 1 1 x 1 1 1 1
0 0 0 0 0 0 0 x 1 0 0 0
8B
10B
8B
10B
8B
D+3
D+1
D-1
D-3
D0

FIG. 3

FIG. 4



YOR920010524US1

FIG. 5

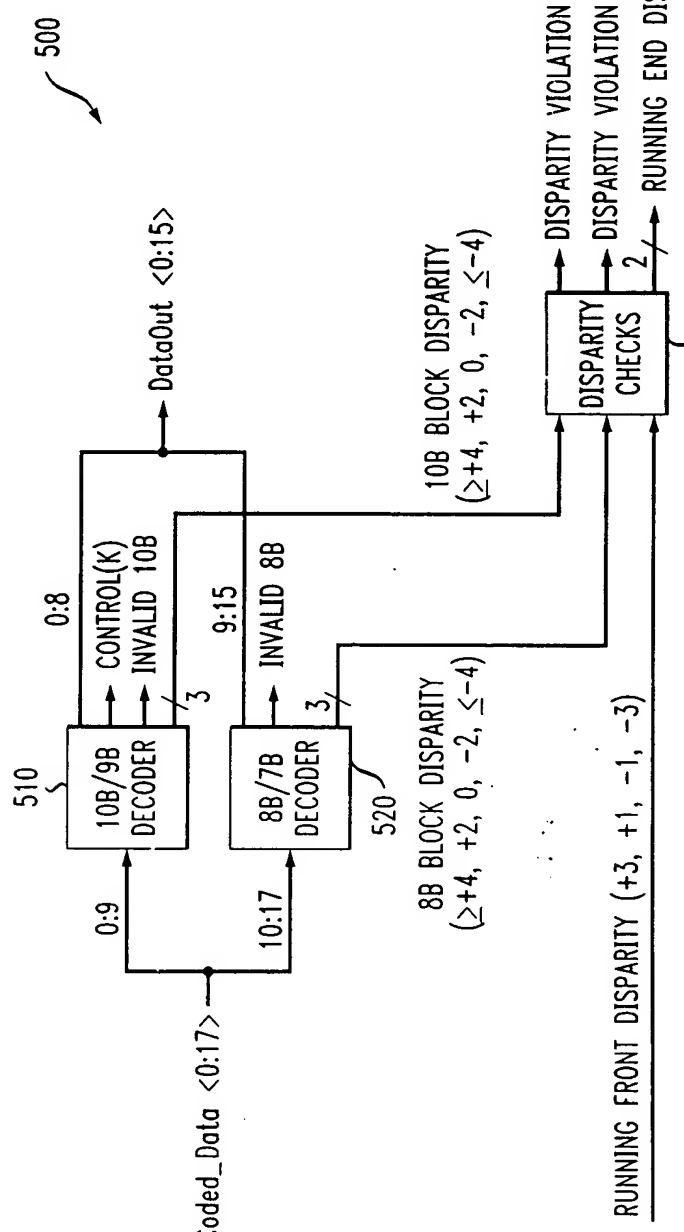

500
Coded_Data <0:17>
0:9
10:17
510
10B/9B DECODER
520
8B/7B DECODER
0:8
CONTROL(K)
INVALID 10B
3
9:15
INVALID 8B
3
DataOut <0:15>
10B BLOCK DISPARITY
(≥+4, +2, 0, -2, ≤-4)
8B BLOCK DISPARITY
(≥+4, +2, 0, -2, ≤-4)
RUNNING FRONT DISPARITY (+3, +1, -1, -3)
DISPARITY CHECKS
530
DISPARITY VIOLATION IN 10B
DISPARITY VIOLATION IN 8B
2
RUNNING END DISPARITY (+3, +1, -1, -3)

FIG. 6

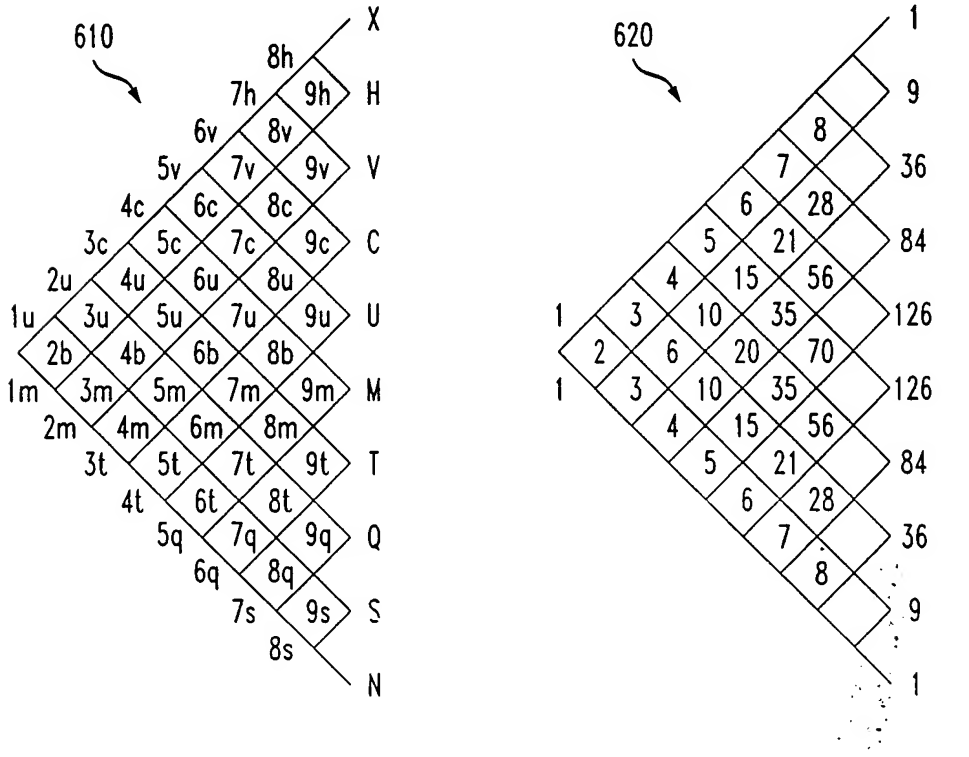

610
X
8h
7h
9h
H
6v
8v
5v
7v
9v
V
4c
6c
8c
3c
5c
7c
9c
C
2u
4u
6u
8u
1u
3u
5u
7u
9u
U
2b
4b
6b
8b
1m
3m
5m
7m
9m
M
2m
4m
6m
8m
3t
5t
7t
9t
T
4t
6t
8t
5q
7q
9q
Q
6q
8q
7s
9s
S
8s
N
620
1
9
8
7
36
6
28
5
21
84
4
15
56
1
3
10
35
126
2
6
20
70
1
3
10
35
126
4
15
56
5
21
84
6
28
7
36
8
9
1

FIG. 7

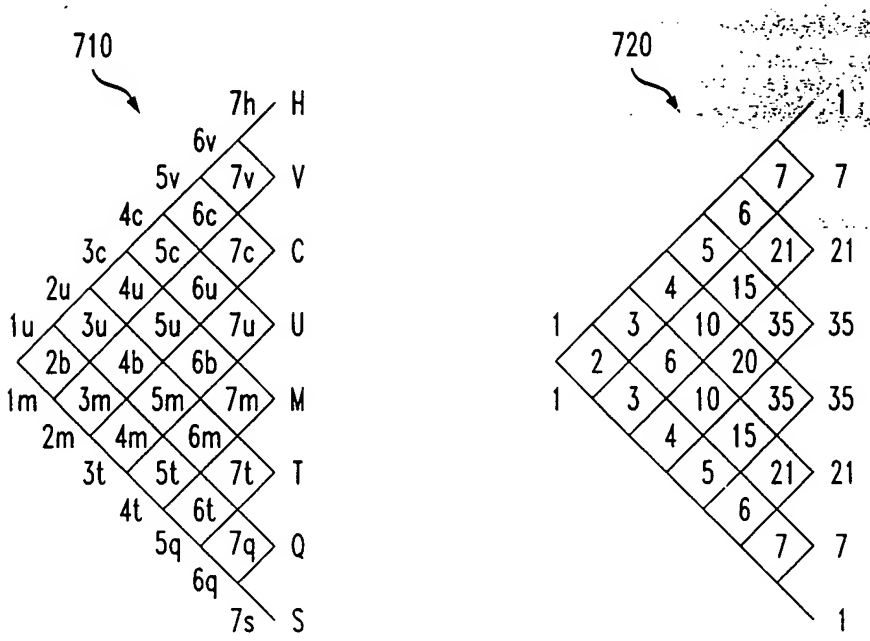

710
7h H
6v
5v 7v V
4c 6c
3c 5c 7c C
2u 4u 6u
1u 3u 5u 7u U
2b 4b 6b
1m 3m 5m 7m M
2m 4m 6m
3t 5t 7t T
4t 6t
5q 7q Q
6q
7s S
720
1
7 7
6
5 21 21
4 15
1 3 10 35 35
2 6 20
1 3 10 35 35
4 15
5 21 21
6
7 7
1

FIG. 8A

Name	ABCDEFGHI K	Coding Class	Primary abcdefghij	DR Class	Pri DR	DB Class	Pri DB
D0	000000000 0	DNCDFI	0011010010	N	+	N	−2
D1	100000000 0	DS1uEGH	1000101100	S	+	S	−2
D2	010000000 0	DS1m2bDGI	0101001010	S	+	S	−2
D3	110000000 0	DQ4t'6mHI	1100000110	Q	+	Q	−2
D4	001000000 0	DS2m3mBGI	0110001010	S	+	S	−2
D5	101000000 0	DQ4t'6mHI	1010000110	Q	+	Q	−2
D6	011000000 0	DQ4t'6mHI	0110000110	Q	+	Q	−2
D7	111000000 0	DT1u5uI	1110000010	T	+	T5u	−2
D8	000100000 0	DS3t4mCGI	0011001010	S	+	S	−2
D9	100100000 0	DQ4t'6mHI	1001000110	Q	+	Q	−2
D10	010100000 0	DQ4t'6mHI	0101000110	Q	+	Q	−2
D11	110100000 0	DT1u5uI	1101000010	T	+	T5u	−2
D12	001100000 0	DQ4t'6mHI	0011000110	Q	+	Q	−2
D13	101100000 0	DT1u5uI	1011000010	T	+	T5u	−2
D14	011100000 0	DT1m4uG	0111001000	T	+	T5u	−2
D15	111100000 0	DM4cCH	1101000100	M4c	+	M4c	−2
D16	000010000 0	DS4t5tAFH	1000110100	S	+	S	−2
D17	100010000 0	DQ4t'6mHI	1000100110	Q	+	Q	−2
D18	010010000 0	DQ4t'6mHI	0100100110	Q	+	Q	−2
D19	110010000 0	DT1u5uI	1100100010	T	+	T5u	−2
D20	001010000 0	DQ4t'6mHI	0010100110	Q	+	Q	−2
D21	101010000 0	DT1u5uI	1010100010	T	+	T5u	−2
D22	011010000 0	DT1m3u4b5u EFI	0110010010	T	+	T5u	−2
D23	111010000 0	BMK'4c'4t'6t'J	1110100001		±	MK'4c'4t'6t'	0
D24	000110000 0	DQ4t'6mHI	0001100110	Q	+	Q	−2
D25	100110000 0	DT1u5uI	1001100010	T	+	T5u	−2
D26	010110000 0	DT1m2b3m5uI	0101100010	T	+	T5u	−2
D27	110110000 0	BMK'4c'4t'6t'J	1101100001		±	MK'4c'4t'6t'	0
D28	001110000 0	DT2m5uI	0011100010	T	+	T5u	−2
D29	101110000 0	BMK'4c'4t'6t'J	1011100001		±	MK'4c'4t'6t'	0
D30	011110000 0	BMK'4c'4t'6t'J	0111100001		±	MK'4c'4t'6t'	0
D31	111110000 0	DU5vCEG	1101001000	U5v	+	U5v	−2
D32	000001000 0	DS5q6tAEI	1000110010	S	+	S	−2
D33	100001000 0	DQ4t'6mHI	1000010110	Q	+	Q	−2
D34	010001000 0	DQ4t'6mHI	0100010110	Q	+	Q	−2
D35	110001000 0	FT5u'5q'	1100010000	T	+	T5u'5q'	−4
D36	001001000 0	DQ4t'6mHI	0010010110	Q	+	DQ	−2
D37	101001000 0	FT5u'5q'	1010010000	T	+	T5u'5q'	−4
D38	011001000 0	FT5u'5q'	0110010000	T	+	T5u'5q'	−4
D39	111001000 0	BMK'4c'4t'6t'J	1110010001		±	MK'4c'4t'6t'	0
D40	000101000 0	DQ4t'6mHI	0001010110	Q	+	Q	−2
D41	100101000 0	FT5u'5q'	1001010000	T	+	T5u'5q'	−4
D42	010101000 0	FT5u'5q'	0101010000	T	+	T5u'5q'	−4
D43	110101000 0	BMK'4c'4t'6t'J	1101010001		±	MK'4c'4t'6t'	0

FIG. 8B

Name	ABCDEFGHI K	Coding Class	Primary abcdefghij	DR Class	Pri DR	DB Class	Pri DB
D44	001101000 0	FT5u'5q'	0011010000	T	+	T5u'5q'	−4
D45	101101000 0	BMK'4c'4t'6t'J	1011010001		±	MK'4c'4t'6t'	0
D46	011101000 0	BMK'4c'4t'6t'J	0111010001		±	MK'4c'4t'6t'	0
D47	111101000 0	PU4c5c	1111010000	U4c5c	−	U4c5c	0
D48	000011000 0	DQ4t6mCG	0010111000	Q	+	Q	−2
D49	100011000 0	FT5u'5q'	1000110000	T	+	T5u'5q'	−4
D50	010011000 0	FT5u'5q'	0100110000	T	+	T5u'5q'	−4
D51	110011000 0	BMK'4c'4t'6t'J	1100110001		±	MK'4c'4t'6t'	0
D52	001011000 0	FT5u'5q'	0010110000	T	+	T5u'5q'	−4
D53	101011000 0	BMK'4c'4t'6t'J	1010110001		±	MK'4c'4t'6t'	0
D54	011011000 0	BMK'4c'4t'6t'J	0110110001		±	MK'4c'4t'6t'	0
D55	111011000 0	PU4u6c	1110110000	U4u6c	−	U4u6c	0
D56	000111000 0	FT5u'5q'	0001110000	T	+	T5u'5q'	−4
D57	100111000 0	BMK'4c'4t'6t'J	1001110001		±	MK'4c'4t'6t'	0
D58	010111000 0	BMK'4c'4t'6t'J	0101110001		±	MK'4c'4t'6t'	0
D59	110111000 0	PU4u6c	1101110000	U4u6c	−	U4u6c	0
D60	001111000 0	BMK'4c'4t'6t'J	0011110001		±	MK'4c'4t'6t'	0
D61	101111000 0	PU4u6c	1011110000	U4u6c	−	U4u6c	0
D62	011111000 0	PU4u6c	0111110000	U4u6c	−	U4u6c	0
D63	111111000 0	DC6vAEFI	0111000010	C4c	+	C4c	−2
D64	000000100 0	DS6q8qBEF	0100111000	S	+	S	−2
D65	100000100 0	DQ3m6t7tDF	1001011000	Q	+	Q	−2
D66	010000100 0	DQ3m6t7tDF	0101011000	Q	+	Q	−2
D67	110000100 0	FT5u'5q'	1100001000	T	+	T5u'5q'	−4
D68	001000100 0	DQ3m6t7tDF	0011011000	Q	+	Q	−2
D69	101000100 0	FT5u'5q'	1010001000	T	+	T5u'5q'	−4
D70	011000100 0	FT5u'5q'	0110001000	T	+	T5u'5q'	−4
D71	111000100 0	BMK'4c'4t'6t'J	1110001001		±	MK'4c'4t'6t'	0
D72	000100100 0	DQ3t4m6t7tB H	0101001100	Q	+	Q	−2
D73	100100100 0	FT5u'5q'	1001001000	T	+	T5u'5q'	−4
D74	010100100 0	FT5u'5q'	0101001000	T	+	T5u'5q'	−4
D75	110100100 0	BMK'4c'4t'6t'J	1101001001		±	MK'4c'4t'6t'	0
D76	001100100 0	FT5u'5q'	0011001000	T	+	T5u'5q'	−4
D77	101100100 0	BMK'4c'4t'6t'J	1011001001		±	MK'4c'4t'6t'	0
D78	011100100 0	BMK'4c'4t'6t'J	0111001001		±	MK'4c'4t'6t'	0
D79	111100100 0	PU4c5c	1111001000	U4c5c	−	U4c5c	0
D80	000010100 0	DQ4t6m'8tAB	1100101000	Q	+	Q	−2
D81	100010100 0	FT5u'5q'	1000101000	T	+	T5u'5q'	−4
D82	010010100 0	FT5u'5q'	0100101000	T	+	T5u'5q'	−4
D83	110010100 0	BMK'4c'4t'6t'J	1100101001		±	MK'4c'4t'6t'	0
D84	001010100 0	FT5u'5q'	0010101000	T	+	T5u'5q'	−4
D85	101010100 0	BMK'4c'4t'6t'J	1010101001		±	MK'4c'4t' 6t'	0
D86	011010100 0	BMK'4c'4t'6t'J	0110101001		±	MK'4c'4t'6t'	0
D87	111010100 0	BU4c'6c'4t'	1110101000		±	U4c'6c'4t'	0
D88	000110100 0	FT5u'5q'	0001101000	T	+	T5u'5q'	−4

FIG. 8C

Name	ABCDEFGHI K	Coding Class	Primary abcdefghij	DR Class	Pri DR	DB Class	Pri DB
D89	100110100 0	BMK'4c'4t'6t'J	1001101001		±	MK'4c'4t'6t'	0
D90	010110100 0	BMK'4c'4t'6t'J	0101101001		±	MK'4c'4t'6t'	0
D91	110110100 0	BU4c'6c'4t'	1101101000		±	U4c'6c'4t'	0
D92	001110100 0	BMK'4c'4t'6t'J	0011101001		±	MK'4c'4t'6t'	0
D93	101110100 0	BU4c'6c'4t'	1011101000		±	U4c'6c'4t'	0
D94	011110100 0	BU4c'6c'4t'	0111101000		±	U4c'6c'4t'	0
D95	111110100 0	DC5v6cAD	0110101000	C4c	+	C4c	−2
D96	000001100 0	DQ4t6m'8tAB	1100011000	Q	+	Q	−2
D97	100001100 0	FT5u'5q'	1000011000	T	+	T5u'5q'	−4
D98	010001100 0	FT5u'5q'	0100011000	T	+	T5u'5q'	−4
D99	110001100 0	BMK'4c'4t'6t'J	1100011001		±	MK'4c'4t'6t'	0
D100	001001100 0	FT5u'5q'	0010011000	T	+	T5u'5q'	−4
D101	101001100 0	BMK'4c'4t'6t'J	1010011001		±	MK'4c'4t'6t'	0
D102	011001100 0	BMK'4c'4t'6t'J	0110011001		±	MK'4c'4t'6t'	0
D103	111001100 0	BU4c'6c'4t'	1110011000		±	U4c'6c'4t'	0
D104	000101100 0	FT5u'5q'	0001011000	T	+	T5u'5q'	−4
D105	100101100 0	BMK'4c'4t'6t'J	1001011001		±	MK'4c'4t'6t'	0
D106	010101100 0	BMK'4c'4t'6t'J	0101011001		±	MK'4c'4t'6t'	0
D107	110101100 0	BU4c'6c'4t'	1101011000		±	U4c'6c'4t'	0
D108	001101100 0	BMK'4c'4t'6t'J	0011011001		±	MK'4c'4t'6t'	0
D109	101101100 0	BU4c'6c'4t'	1011011000		±	U4c'6c'4t'	0
D110	011101100 0	BU4c'6c'4t'	0111011000		±	U4c'6c'4t'	0
D111	111101100 0	DC4c5c7u'BD	1010011000	C4c	+	C4c	−2
D112	000011100 0	FT5u'5q'	0000111000	FT	+	T5u'5q'	−4
D113	100011100 0	BMK'4c'4t'6t'J	1000111001		±	MK'4c'4t'6t'	0
D114	010011100 0	BMK'4c'4t'6t'J	0100111001		±	MK'4c'4t'6t'	0
D115	110011100 0	BU4c'6c'4t'	1100111000		±	U4c'6c'4t'	0
D116	001011100 0	BMK'4c'4t'6t'J	0010111001		±	MK'4c'4t'6t'	0
D117	101011100 0	BU4c'6c'4t'	1010111000		±	U4c'6c'4t'	0
D118	011011100 0	BU4c'6c'4t'	0110111000		±	U4c'6c'4t'	0
D119	111011100 0	DC4c'	1110111000	C4c'	−	C4c'	+2
D120	000111100 0	BMK'4c'4t'6t'J	0001111001		±	MK'4c'4t'6t'	0
D121	100111100 0	BU4c'6c'4t'	1001111000		±	U4c'6c'4t'	0
D122	010111100 0	BU4c'6c'4t'	0101111000		±	U4c'6c'4t'	0
D123	110111100 0	DC4c'	1101111000	C4c'	−	C4c'	+2
D124	001111100 0	BU4c'6c'4t'	0011111000		±	U4c'6c'4t'	0
D125	101111100 0	DC4c'	1011111000	C4c'	−	C4c'	+2
D126	011111100 0	DC4c'	0111111000	C4c'	−	C4c'	+2
D127	111111100	DV6v8vBCF	1001101000	V5v	+	V5v	−2
D128	000000010 0	DS6q8qBEF	0100110100	S	+	S	−2
D129	100000010 0	DQ4m7q8tFG	1000011100	Q	+	Q	−2
D130	010000010 0	DQ4m7q8tFG	0100011100	Q	+	Q	−2
D131	110000010 0	FT5u'5q'0	1100000100	T	+	T5u'5q'	−4
D132	001000010 0	DQ4m7q8tFG	0010011100	Q	+	Q	−2
D133	101000010 0	FT5u'5q'	1010000100	T	+	T5u'5q'	−4

FIG. 8D

Name	ABCDEFGHI K	Coding Class	Primary abcdefghij	DR Class	Pri DR	DB Class	Pri DB
D134	011000010 0	FT5u'5q'	0110000100	T	+	T5u'5q'	−4
D135	111000010 0	BMK'4c'4t'6t'J	1110000101		±	MK'4c'4t'6t'	0
D136	000100010 0	DQ4m7q8tFG	0001011100	Q	+	Q	−2
D137	100100010 0	FT5u'5q'	1001000100	T	+	T5u'5q'	−4
D138	010100010 0	FT5u'5q'	0101000100	T	+	T5u'5q'	−4
D139	110100010 0	BMK'4c'4t'6t'J	1101000101		±	MK'4c'4t'6t'	0
D140	001100010 0	FT5u'5q'	0011000100	T	+	T5u'5q'	−4
D141	101100010 0	BMK'4c'4t'6t'J	1011000101		±	MK'4c'4t'6t'	0
D142	011100010 0	BMK'4c'4t'6t'J	0111000101		±	MK'4c'4t'6t'	0
D143	111100010 0	PU4c5c	1111000100	U4c5c	−	U4c5c	0
D144	000010010 0	DQ4t6m'8tAB	1100100100	Q	+	Q	−2
D145	100010010 0	FT5u'5q'	1000100100	T	+	T5u'5q'	−4
D146	010010010 0	FT5u'5q'	0100100100	T	+	T5u'5q'	−4
D147	110010010 0	BMK'4c'4t'6t'J	1100100101		±	MK'4c'4t'6t'	0
D148	001010010 0	FT5u'5q'	0010100100	T	+	T5u'5q'	−4
D149	101010010 0	BMK'4c'4t'6t'J	1010100101		±	MK'4c'4t'6t'	0
D150	011010010 0	BMK'4c'4t'6t'J	0110100101		±	MK'4c'4t'6t'	0
D151	111010010 0	BU4c'6c'4t'	1110100100		±	U4c'6c'4t'	0
D152	000110010 0	FT5u'5q'	0001100100	T	+	T5u'5q'	−4
D153	100110010 0	BMK'4c'4t'6t'J	1001100101		±	MK'4c'4t'6t'	0
D154	010110010 0	BMK'4c'4t'6t'J	0101100101		±	MK'4c'4t'6t'	0
D155	110110010 0	BU4c'6c'4t'	1101100100		±	U4c'6c'4t'	0
D156	001110010 0	BMK'4c'4t'6t'J	0011100101		±	MK'4c'4t'6t'	0
D157	101110010 0	BU4c'6c'4t'	1011100100		±	U4c'6c'4t'	0
D158	011110010 0	BU4c'6c'4t'	0111100100		±	U4c'6c'4t'	0
D159	111110010 0	DC5v6cAD	0110100100	C4c	+	C4c	−2
D160	000001010 0	DQ4t6m'8tAB	1100010100	Q	+	Q	−2
D161	100001010 0	FT5u'5q'	1000010100	T	+	T5u'5q'	−4
D162	010001010 0	FT5u'5q'	0100010100	T	+	T5u'5q'	−4
D163	110001010 0	BMK'4c'4t'6t'J	1100010101		±	MK'4c'4t'6t'	0
D164	001001010 0	FT5u'5q'	0010010100	T	+	T5u'5q'	−4
D165	101001010 0	BMK'4c'4t'6t'J	1010010101		±	MK'4c'4t'6t'	0
D166	011001010 0	BMK'4c'4t'6t'J	0110010101		±	MK'4c'4t'6t'	0
D167	111001010 0	BU4c'6c'4t'	1110010100		±	U4c'6c'4t'	0
D168	000101010 0	FT5u'5q'	0001010100	T	+	T5u'5q'	−4
D169	100101010 0	BMK'4c'4t'6t'J	1001010101		±	MK'4c'4t'6t'	0
D170	010101010 0	BMK'4c'4t'6t'J	0101010101		±	MK'4c'4t'6t'	0
D171	110101010 0	BU4c'6c'4t'	1101010100		±	U4c'6c'4t'	0
D172	001101010 0	BMK'4c'4t'6t'J	0011010101		±	MK'4c'4t'6t'	0
D173	101101010 0	BU4c'6c'4t'	1011010100		±	U4c'6c'4t'	0
D174	011101010 0	BU4c'6c'4t'	0111010100		±	U4c'6c'4t'	0
D175	111101010 0	DC4c5c7u'BD	1010010100	C4c	+	C4c	−2
D176	000011010 0	FT5u'5q'	0000110100	T	+	T5u'5q'	−4
D177	100011010 0	BMK'4c'4t'6t'J	1000110101		±	MK'4c'4t'6t'	0
D178	010011010 0	BMK'4c'4t'6t'J	0100110101		±	MK'4c'4t'6t'	0

FIG. 8E

Name	ABCDEFGHI K	Coding Class	Primary abcdefghij	DR Class	Pri DR	DB Class	Pri DB
D179	1100110100	BU4c'6c'4t'	1100110100		±	U4c'6c'4t'	0
D180	0010110100	BMK'4c'4t'6t'J	0010110101		±	MK'4c'4t'6t'	0
D181	1010110100	BU4c'6c'4t'	1010110100		±	U4c'6c'4t'	0
D182	0110110100	BU4c'6c'4t'	0110110100		±	U4c'6c'4t'	0
D183	1110110100	DC4c'	1110110100	C4c'	–	C4c'	+2
D184	0001110100	BMK'4c'4t'6t'J	0001110101		±	MK'4c'4t'6t'	0
D185	1001110100	BU4c'6c'4t'	1001110100		±	U4c'6c'4t'	0
D186	0101110100	BU4c'6c'4t'	0101110100		±	U4c'6c'4t'	0
D187	1101110100	DC4c'	1101110100	C4c'	–	C4c'	+2
D188	0011110100	BU4c'6c'4t'	0011110100		±	U4c'6c'4t'	0
D189	1011110100	DC4c'	1011110100	C4 c'	–	C4c'	+2
D190	0111110100	DC4c'	0111110100	C4c'	–	C4c'	+2
D191	1111110100	DV6v8vBCF	1001100100	V5v	+	V5v	–2
D192	0000001100	DQ4t6m'8tAB	1100001100	Q	+	Q	–2
D193	1000001100	FT5u'5q'	1000001100	T	+	T5u'5q'	–4
D194	0100001100	FT5u'5q'	0100001100	T	+	T5u'5q'	–4
D195	1100001101	BMK'4c'4t'6t'J	1100001101		±	MK'4c'4t'6t'	0
D196	0010001100	FT5u'5q'	0010001100	T	+	T5u'5q'	–4
D197	1010001101	BMK'4c'4t'6t'J	1010001101		±	MK'4c'4t'6t'	0
D198	0110001101	BMK'4c'4t'6t'J	0110001101		±	MK'4c'4t'6t'	0
D199	1110001100	BU4c'6c'4t'	1110001100		±	U4c'6c'4t'	0
D200	0001001100	FT5u'5q'	0001001100	T	+	T5u'5q'	–4
D201	1001001101	BMK'4c'4t'6t'J	1001001101		±	MK'4c'4t'6t'	0
D202	0101001101	BMK'4c'4t'6t'J	0101001101		±	MK'4c'4t'6t'	0
D203	1101001100	BU4c'6c'4t'	1101001100		±	U4c'6c'4t'	0
D204	0011001101	BMK'4c'4t'6t'J	0011001101		±	MK'4c'4t'6t'	0
D205	1011001100	BU4c'6c'4t'	1011001100		±	U4c'6c'4t'	0
D206	0111001100	BU4c'6c'4t'	0111001100		±	U4c'6c'4t'	0
D207	1111001100	DC4c5c7u'BD	1010001100	C4c	+	C4c	–2
D208	0000101100	FT5u'5q'	0000101100	T	+	T5u'5q'	–4
D209	1000101101	BMK'4c'4t'6t'J	1000101101		±	MK'4c'4t'6t'	0
D210	0100101101	BMK'4c'4t'6t'J	0100101101		±	MK'4c'4t'6t'	0
D211	1100101100	BU4c'6c'4t'	1100101100		±	U4c'6c'4t'	0
D212	0010101101	BMK'4c'4t'6t'J	0010101101		±	MK'4c'4t'6t'	0
D213	1010101100	BU4c'6c'4t'	1010101100		±	U4c'6c'4t'	0
D214	0110101100	BU4c'6c'4t'	0110101100		±	U4c'6c'4t'	0
D215	1110101100	DC4c'	1110101100	C4c'	–	C4c'	+2
D216	0001101101	BMK'4c'4t'6t'J	0001101101		±	MK'4c'4t'6t'	0
D217	1001101100	BU4c'6c'4t'	1001101100		±	U4c'6c'4t'	0
D218	0101101100	BU4c'6c'4t'	0101101100		±	U4c'6c'4t'	0
D219	1101101100	DC4c'	1101101100	C4c'	–	C4c'	+2
D220	0011101100	BU4c'6c'4t'	0011101100		±	U4c'6c'4t'	0
D221	1011101100	DC4c'	1011101100	C4c'	–	C4c'	+2
D222	0111101100	DC4c'	0111101100	C4c'	–	C4c'	+2
D223	1111101100	DV5v6c7vBC E	1001001100	V5v	+	V5v	–2

FIG. 8F

Name	ABCDEFGHI K	Coding Class	Primary abcdefghij	DR Class	Pri DR	DB Class	Pri DB
D224	000001110 0	DT5q8mCEF	0010101100	T	+	T5q	−2
D225	100001110 0	BMK'4c'4t'6t'J	1000011101		±	MK'4c'4t'6t'	0
D226	010001110 0	BMK'4c'4t'6t'J	0100011101		±	MK'4c'4t'6t'	0
D227	110001110 0	BU4c'6c'4t'	1100011100		±	U4c'6c'4t'	0
D228	001001110 0	BMK'4c'4t'6t'J	0010011101		±	MK'4c'4t'6t'	0
D229	101001110 0	BU4c'6c'4t'	1010011100		±	U4c'6c'4t'	0
D230	011001110 0	BU4c'6c'4t'	0110011100		±	U4c'6c'4t'	0
D231	111001110 0	DC4c'	1110011100	C4c'	−	C4c'	+2
D232	000101110 0	BMK'4c'4t'6t'J	0001011101		±	MK'4c'4t'6t'	0
D233	100101110 0	BU4c'6c'4t'	1001011100		±	U4c'6c'4t'	0
D234	010101110 0	BU4c'6c'4t'	0101011100		±	U4c'6c'4t'	0
D235	110101110 0	DC4c'	1101011100	C4c'	−	C4c'	+2
D236	001101110 0	BU4c'6c'4t'	0011011100		±	U4c'6c'4t'	0
D237	101101110 0	DC4c'	1011011100	C4c'	−	C4c'	+2
D238	011101110 0	DC4c'	0111011100	C4c'	−	C4c'	+2
D239	111101110 0	DV4c5c8vABF	0011001100	V8v	+	V8v	−2
D240	000011110 0	DM4t8bDGHI	0001110010	M4t	+	M4t	−2
D241	100011110 0	BU4c'6c'4t'	1000111100		±	U4c'6c'4t'	0
D242	010011110 0	BU4c'6c'4t'	0100111100		±	U4c'6c'4t'	0
D243	110011110 0	DC4c'	1100111100	C4c'	−	C4c'	+2
D244	001011110 0	BU4c'6c'4t'	0010111100		±	U4c'6c'4t'	0
D245	101011110 0	DC4c'	1010111100	C4c'	−	C4c'	+2
D246	011011110 0	DC4c'	0110111100	C4c'	−	C4c'	+2
D247	111011110 0	FV4u8v	1110111100	V4u8v	−	V4u8v	+4
D248	000111110 0	BU4c'6c'4t'	0001111100		±	U4c'6c'4t'	0
D249	100111110 0	DC4c'	1001111100	C4c'	−	C4c'	+2
D250	010111110 0	DC4c'	0101111100	C4c'	−	C4c'	+2
D251	110111110 0	FV4u8v	1101111100	V4u8v	−	V4u8v	+4
D252	001111110 0	DC4c'	0011111100	C4c'	−	C4c'	+2
D253	101111110 0	FV4u8v	1011111100	V4u8v	−	V4u8v	+4
D254	011111110 0	FV4u8v	0111111100	V4u8v	−	V4u8v	+4
D255	111111110 0	DH8hBDFG	1010100100	H	+	H	−2
D256	000000001 0	DS8sCEG	0010101010	S	+	S	−2
D257	100000001 0	DQ4m8qFG	1000011010	Q	+	Q	−2
D258	010000001 0	DQ4m8qFG	0100011010	Q	+	Q	−2
D259	110000001 0	FT5u'5q'	1100000010	T	+	T5u'5q'	−4
D260	001000001 0	DQ4m8qFG	0010011010	Q	+	Q	−2
D261	101000001 0	FT5u'5q'	1010000010	T	+	T5u'5q'	−4
D262	011000001 0	FT5u'5q'	0110000010	T	+	T5u'5q'	−4
D263	111000001 0	BMK'4c'4t'6t'J	1110000011		±	MK'4c'4t'6t'	0
D264	000100001 0	DQ4m8qFG	0001011010	Q	+	Q	−2
D265	100100001 0	FT5u'5q'	1001000010	T	+	T5u'5q'	−4
D266	010100001 0	FT5u'5q'	0101000010	T	+	T5u'5q'	−4
D267	110100001 0	BMK'4c'4t'6t'J	1101000011		±	MK'4c'4t'6t'	0
D268	001100001 0	FT5u'5q'	0011000010	T	+	T5u'5q'	−4

FIG. 8G

Name	ABCDEFGHI K	Coding Class	Primary abcdefghij	DR Class	Pri DR	DB Class	Pri DB
D269	101100001 0	BMK'4c'4t'6t'J	1011000011		±	MK'4c'4t'6t'	0
D270	011100001 0	BMK'4c'4t'6t'J	0111000011		±	MK'4c'4t'6t'	0
D271	111100001 0	PU4c5c	1111000010	U4c5c	–	U4c5c	0
D272	000010001 0	DQ4t5t8qAG	1000101010	Q	+	Q	–2
D273	100010001 0	FT5u'5q'	1000100010	T	+	T5u'5q'	–4
D274	010010001 0	FT5u'5q'	0100100010	T	+	T5u'5q'	–4
D275	110010001 0	BMK'4c'4t'6t'J	1100100011		±	MK'4c'4t'6t'	0
D276	001010001 0	FT5u'5q'	0010100010	T	+	T5u'5q'	–4
D277	101010001 0	BMK'4c'4t'6t'J	1010100011		±	MK'4c'4t'6t'	0
D278	011010001 0	BMK'4c'4t'6t'J	0110100011		±	MK'4c'4t'6t'	0
D279	111010001 0	BU4c'6c'4t'	1110100010		±	U4c'6c'4t'	0
D280	000110001 0	FT5u'5q'	0001100010	T	+	T5u'5q'	–4
D281	100110001 0	BMK'4c'4t'6t'J	1001100011		±	MK'4c'4t'6t'	0
D282	010110001 0	BMK'4c'4t'6t'J	0101100011		±	MK'4c'4t'6t'	0
D283	110110001 0	BU4c'6c'4t'	1101100010		±	U4c'6c'4t'	0
D284	001110001 0	BMK'4c'4t'6t'J	0011100011		±	MK'4c'4t'6t'	0
D285	101110001 0	BU4c'6c'4t'	1011100010		±	U4c'6c'4t'	0
D286	011110001 0	BU4c'6c'4t'	0111100010		±	U4c'6c'4t'	0
D287	111110001 0	DC5v6cAD	0110100010	C4c	+	C4c	–2
D288	000001001 0	DQ5q7q8qAB	1100010010	Q	+	Q	–2
D289	100001001 0	FT5u'5q'	1000010010	T	+	T5u'5q'	–4
D290	010001001 0	FT5u'5q'	0100010010	T	+	T5u'5q'	–4
D291	110001001 0	BMK'4c'4t'6t'J	1100010011		±	MK'4c'4t'6t'	0
D292	001001001 0	FT5u'5q'	0010010010	T	+	T5u'5q'	–4
D293	101001001 0	BMK'4c'4t'6t'J	1010010011		±	MK'4c'4t'6t'	0
D294	011001001 0	BMK'4c'4t'6t'J	0110010011		±	MK'4c'4t'6t'	0
D295	111001001 0	BU4c'6c'4t'	1110010010		±	U4c'6c'4t'	0
D296	000101001 0	FT5u'5q'	0001010010	T	+	T5u'5q'	–4
D297	100101001 0	BMK'4c'4t'6t'J	1001010011		±	MK'4c'4t'6t'	0
D298	010101001 0	BMK'4c'4t'6t'J	0101010011		±	MK'4c'4t'6t'	0
D299	110101001 0	BU4c'6c'4t'	1101010010		±	U4c'6c'4t'	0
D300	001101001 0	BMK'4c'4t'6t'J	0011010011		±	MK'4c'4t'6t'	0
D301	101101001 0	BU4c'6c'4t'	1011010010		±	U4c'6c'4t'	0
D302	011101001 0	BU4c'6c'4t'	0111010010		±	U4c'6c'4t'	0
D303	111101001 0	DC4c5c7u'BD	1010010010	C4c	+	C4c	–2
D304	000011001 0	FT5u'5q'	0000110010	T	+	T5u'5q'	–4
D305	100011001 0	BMK'4c'4t'6t'J	1000110011		±	MK'4c'4t'6t'	0
D306	010011001 0	BMK'4c'4t'6t'J	0100110011		±	MK'4c'4t'6t'	0
D307	110011001 0	BU4c'6c'4t'	1100110010		±	U4c'6c'4t'	0
D308	001011001 0	BMK'4c'4t'6t'J	0010110011		±	MK'4c'4t'6t'	0
D309	101011001 0	BU4c'6c'4t'	1010110010		±	U4c'6c'4t'	0
D310	011011001 0	BU4c'6c'4t'	0110110010		±	U4c'6c'4t'	0
D311	111011001 0	DC4c'	1110110010	C4c'	–	C4c'	+2
D312	000111001 0	BMK'4c'4t'6t'J	0001110011		±	MK'4c'4t'6t'	0
D313	100111001 0	BU4c'6c'4t'	1001110010		±	U4c'6c'4t'	0

FIG. 8H

Name	ABCDEFGHI K	Coding Class	Primary abcdefghij	DR Class	Pri DR	DB Class	Pri DB
D314	0101110010	BU4c'6c'4t'	0101110010		±	U4c'6c'4t'	0
D315	1101110010	DC4c'	1101110010	C4c'	–	C4c'	+2
D316	0011110010	BU4c'6c'4t'	0011110010		±	U4c'6c'4t'	0
D317	1011110010	DC4c'	1011110010	C4c'	–	C4c'	+2
D318	0111110010	DC4c'	0111110010	C4c'	–	C4c'	+2
D319	1111110010	DV6v8cBCE	1001010010	V5v	+	V5v	–2
D320	0000001010	DQ5q7q8qAB	1100001010	Q	+	Q	–2
D321	1000001010	FT5u'5q'	1000001010	T	+	T5u'5q'	–4
D322	0100001010	FT5u'5q'	0100001010	T	+	T5u'5q'	–4
D323	1100001010	BMK'4c'4t'6t'J	1100001011		±	MK'4c'4t'6t'	0
D324	0010001010	FT5u'5q'	0010001010	T	+	T5u'5q'	–4
D325	1010001010	BMK'4c'4t'6t'J	1010001011		±	MK'4c'4t'6t'	0
D326	0110001010	BMK'4c'4t'6t'J	0110001011		±	MK'4c'4t'6t'	0
D327	1110001010	BU4c'6c'4t'	1110001010		±	U4c'6c'4t'	0
D328	0001001010	FT5u'5q'	0001001010	T	+	T5u'5q'	–4
D329	1001001010	BMK'4c'4t'6t'J	1001001011		±	MK'4c'4t'6t'	0
D330	0101001010	BMK'4c'4t'6t'J	0101001011		±	MK'4c'4t'6t'	0
D331	1101001010	BU4c'6c'4t'	1101001010		±	U4c'6c'4t'	0
D332	0011001010	BMK'4c'4t'6t'J	0011001011		±	MK'4c'4t'6t'	0
D333	1011001010	BU4c'6c'4t'	1011001010		±	U4c'6c'4t'	0
D334	0111001010	BU4c'6c'4t'	0111001010		±	U4c'6c'4t'	0
D335	1110001000	DC4c6u8uDI	1110001000	C4c	+	C4c	–2
D336	0000101010	FT5u'5q'	0000101010	T	+	T5u'5q'	–4
D337	1000101010	BMK'4c'4t'6t'J	1000101011		±	MK'4c'4t'6t'	0
D338	0100101010	BMK'4c'4t'6t'J	0100101011		±	MK'4c'4t'6t'	0
D339	1100101010	BU4c'6c'4t'	1100101010		±	U4c'6c'4t'	0
D340	0010101010	BMK'4c'4t'6t'J	0010101011		±	MK'4c'4t'6t'	0
D341	1010101010	BU4c'6c'4t'	1010101010		±	U4c'6c'4t'	0
D342	0110101010	BU4c'6c'4t'	0110101010		±	U4c'6c'4t'	0
D343	1110101010	DC4c'	1110101010	C4c'	–	C4c'	+2
D344	0001101010	BMK'4c'4t'6t'J	0001101011		±	MK'4c'4t'6t'	0
D345	1001101010	BU4c'6c'4t'	1001101010		±	U4c'6c'4t'	0
D346	0101101010	BU4c'6c'4t'	0101101010		±	U4c'6c'4t'	0
D347	1101101010	DC4c'	1101101010	C4c'	–	C4c'	+2
D348	0011101010	BU4c'6c'4t'	0011101010		±	U4c'6c'4t'	0
D349	1011101010	DC4c'	1011101010	C4c'	–	C4c'	+2
D350	0111101010	DC4c'	0111101010	C4c'	–	C4c'	+2
D351	1111101010	DV5v6c7vBC E	1001001010	V5v	+	V5v	–2
D352	0000011010	DT5q7t8tAC E	1010001010	T	+	T5q	–2
D353	1000011010	BMK'4c'4t'6t'J	1000011011		±	MK'4c'4t'6t'	0
D354	0100011010	BMK'4c'4t'6t'J	0100011011		±	MK'4c'4t'6t'	0
D355	1100011010	BU4c'6c'4t'	1100011010		±	U4c'6c'4t'	0
D356	0010011010	BMK'4c'4t'6t'J	0010011011		±	MK'4c'4t'6t'	0
D357	1010011010	BU4c'6c'4t'	1010011010		±	U4c'6c'4t'	0
D358	0110011010	BU4c'6c'4t'	0110011010		±	U4c'6c'4t'	0

FIG. 8I

Name	ABCDEFGHI K	Coding Class	Primary abcdefghij	DR Class	Pri DR	DB Class	Pri DB
D359	111001101 0	DC4c'	1110011010	C4c'	–	C4c'	+2
D360	000101101 0	BMK'4c'4t'6t'J	0001011011		±	MK'4c'4t'6t'	0
D361	100101101 0	BU4c'6c'4t'	1001011010		±	U4c'6c'4t'	0
D362	010101101 0	BU4c'6c'4t'	0101011010		±	U4c'6c'4t'	0
D363	110101101 0	DC4c'	1101011010	C4c'	–	C4c'	+2
D364	001101101 0	BU4c'6c'4t'	0011011010		±	U4c'6c'4t'	0
D365	101101101 0	DC4c'	1011011010	C4c'	–	C4c'	+2
D366	011101101 0	DC4c'	0111011010	C4c'	–	C4c'	+2
D367	111101101 0	FV5v'8v'	1111011010	V5v'8v'	–	V5v'8v'	+4
D368	000011101 0	DM4t5t8mDI	0001111000	M4t	+	M4t	–2
D369	100011101 0	BU4c'6c'4t'	1000111010		±	U4c'6c'4t'	0
D370	010011101 0	BU4c'6c'4t'	0100111010		±	U4c'6c'4t'	0
D371	110011101 0	DC4c'	1100111010	C4c'	–	C4c'	+2
D372	001011101 0	BU4c'6c'4t'	0010111010		±	U4c'6c'4t'	0
D373	101011101 0	DC4c'	1010111010	C4c'	–	C4c'	+2
D374	011011101 0	DC4c'	0110111010	C4c'	–	C4c'	+2
D375	111011101 0	FV5v'8v'	1110111010	V5v'8v'	–	V5v'8v'	+4
D376	000111101 0	BU4c'6c'4t'	0001111010		±	U4c'6c'4t'	0
D377	100111101 0	DC4c'	1001111010	C4c'	–	C4c'	+2
D378	010111101 0	DC4c'	0101111010	C4c'	–	C4c'	+2
D379	110111101 0	FV5v'8v'	1101111010	V5v'8v'	–	V5v'8v'	+4
D380	001111101 0	DC4c'	0011111010	C4c'	–	C4c'	+2
D381	101111101 0	FV5v'8v'	1011111010	V5v'8v'	–	V5v'8v'	+4
D382	011111101 0	FV5v'8v'	0111111010	V5v'8v'	–	V5v'8v'	+4
D383	111111101	DH7h8vBDFI	1010101000	H	+	H	–2
D384	000000011 0	DQ7sBDFH	0101010010	Q	+	Q	–2
D385	100000011 0	FT5u'5q'	1000000110	T	+	T5u'5q'	–4
D386	010000011 0	FT5u'5q'	0100000110	T	+	T5u'5q'	–4
D387	110000011 0	BMK'4c'4t'6t'J	1100000111		±	MK'4c'4t'6t'	0
D388	001000011 0	FT5u'5q'	0010000110	T	+	T5u'5q'	–4
D389	101000011 0	BMK'4c'4t'6t'J	1010000111		±	MK'4c'4t'6t'	0
D390	011000011 0	BMK'4c'4t'6t'J	0110000111		±	MK'4c'4t'6t'	0
D391	111000011 0	BU4c'6c'4t'	1110000110		±	U4c'6c'4t'	0
D392	000100011 0	FT5u'5q'	0001000110	T	+	T5u'5q'	–4
D393	100100011 0	BMK'4c'4t'6t'J	1001000111		±	MK'4c'4t'6t'	0
D394	010100011 0	BMK'4c'4t'6t'J	0101000111		±	MK'4c'4t'6t'	0
D395	110100011 0	BU4c'6c'4t'	1101000110		±	U4c'6c'4t'	0
D396	001100011 0	BMK'4c'4t'6t'J	0011000111		±	MK'4c'4t'6t'	0
D397	101100011 0	BU4c'6c'4t'	1011000110		±	U4c'6c'4t'	0
D398	011100011 0	BU4c'6c'4t'	0111000110		±	U4c'6c'4t'	0
D399	111100011 0	DC4c6u8uDI	1110000100	C4c	+	C4c	–2
D400	000010011 0	FT5u'5q'	0000100110	FT	+	T5u'5q'	–4
D401	100010011 0	BMK'4c'4t'6t'J	1000100111		±	MK'4c'4t'6t'	0
D402	010010011 0	BMK'4c'4t'6t'J	0100100111		±	MK'4c'4t'6t'	0
D403	110010011 0	BU4c'6c'4t'	1100100110		±	U4c'6c'4t'	0

FIG. 8J

Name	ABCDEFGHI K	Coding Class	Primary abcdefghij	DR Class	Pri DR	DB Class	Pri DB
D404	001010011 0	BMK'4c'4t'6t'J	0010100111		±	MK'4c'4t'6t'	0
D405	101010011 0	BU4c'6c'4t'	1010100110		±	U4c'6c'4t'	0
D406	011010011 0	BU4c'6c'4t'	0110100110		±	U4c'6c'4t'	0
D407	111010011 0	DC4c'	1110100110	C4c'	–	C4c'	+2
D408	000110011 0	BMK'4c'4t'6t'J	0001100111		±	MK'4c'4t'6t'	0
D409	100110011 0	BU4c'6c'4t'	1001100110		±	U4c'6c'4t'	0
D410	010110011 0	BU4c'6c'4t'	0101100110		±	U4c'6c'4t'	0
D411	110110011 0	DC4c'	1101100110	C4c'	–	C4c'	+2
D412	001110011 0	BU4c'6c'4t'	0011100110		±	U4c'6c'4t'	0
D413	101110011 0	DC4c'	1011100110	C4c'	–	C4c'	+2
D414	011110011 0	DC4c'	0111100110	C4c'	–	C4c'	+2
D415	111110011 0	DV5v7cABI	0011100100	V5v	+	V5v	–2
D416	000001011 0	DT5q6t7qADI	1001010100	T	+	T5q	–2
D417	100001011 0	BMK'4c'4t'6t'J	1000010111		±	MK'4c'4t'6t'	0
D418	010001011 0	BMK'4c'4t'6t'J	0100010111		±	MK'4c'4t'6t'	0
D419	110001011 0	BU4c'6c'4t'	1100010110		±	U4c'6c'4t'	0
D420	001001011 0	BMK'4c'4t'6t'J	0010010111		±	MK'4c'4t'6t'	0
D421	101001011 0	BU4c'6c'4t'	1010010110		±	U4c'6c'4t'	0
D422	011001011 0	BU4c'6c'4t'	0110010110		±	U4c'6c'4t'	0
D423	111001011 0	DC4c'	1110010110	C4c'	–	C4c'	+2
D424	000101011 0	BMK'4c'4t'6t'J	0001010111		±	MK'4c'4t'6t'	0
D425	100101011 0	BU4c'6c'4t'	1001010110		±	U4c'6c'4t'	0
D426	010101011 0	BU4c'6c'4t'	0101010110		±	U4c'6c'4t'	0
D427	110101011 0	DC4c'	1101010110	C4c'	–	C4c'	+2
D428	001101011 0	BU4c'6c'4t'	0011010110		±	U4c'6c'4t'	0
D429	101101011 0	DC4c'	1011010110	C4c'	–	C4c'	+2
D430	011101011 0	DC4c'	0111010110	C4c'	–	C4c'	+2
D431	111101011 0	FV5v'8v'	1111010110	V5v'8v'	–	V5v'8v'	+4
D432	000011011 0	DM4t5t8mDI	0001110100	M4t	+	M4t	–2
D433	100011011 0	BU4c'6c'4t'	1000110110		±	U4c'6c'4t'	0
D434	010011011 0	BU4c'6c'4t'	0100110110		±	U4c'6c'4t'	0
D435	110011011 0	DC4c'	1100110110	C4c'	–	C4c'	+2
D436	001011011 0	BU4c'6c'4t'	0010110110		±	U4c'6c'4t'	0
D437	101011011 0	DC4c'	1010110110	C4c'	–	C4c'	+2
D438	011011011 0	DC4c'	0110110110	C4c'	–	C4c'	+2
D439	111011011 0	FV5v'8v'	1110110110	V5v'8v'	–	V5v'8v'	+4
D440	000111011 0	BU4c'6c'4t'	0001110110		±	U4c'6c'4t'	0
D441	100111011 0	DC4c'	1001110110	C4c	–	C4c'	+2
D442	010111011 0	DC4c'	0101110110	C4c'	–	C4c'	+2
D443	110111011 0	FV5v'8v'	1101110110	V5v'8v'	–	V5v'8v'	+4
D444	001111011 0	DC4c'	0011110110	C4c'	–	C4c'	+2
D445	101111011 0	FV5v'8v'	1011110110	V5v'8v'	–	V5v'8v'	+4
D446	011111011 0	FV5v'8v'	0111110110	V5v'8v'	–	V5v'8v'	+4
D447	111111011 0	DH6v7vAEFI	0111000100	H	+	H	–2
D448	000000111 0	DT6qDEH	0001101010	T	+	T5q	–2

FIG. 8K

Name	ABCDEFGHI K	Coding Class	Primary abcdefghij	DR Class	Pri DR	DB Class	Pri DB
D449	100000111 0	DM4m6t	1000001110	M6t	+	M6t	−2
D450	010000111 0	DM4m6t	0100001110	M6t	+	M6t	−2
D451	110000111 0	BU4c'6c'4t'	1100001110		±	U4c'6c'4t'	0
D452	001000111 0	DM4m6t	0010001110	M6t	+	M6t	−2
D453	101000111 0	BU4c'6c'4t'	1010001110		±	U4c'6c'4t'	0
D454	011000111 0	BU4c'6c'4t'	0110001110		±	U4c'6c'4t'	0
D455	111000111 0	DC4c'	1110001110	C4c'	−	C4c'	+2
D456	000100111 0	DM4m6t	0001001110	M6t	+	M6t	−2
D457	100100111 0	BU4c'6c'4t'	1001001110		±	U4c'6c'4t'	0
D458	010100111 0	BU4c'6c'4t'	0101001110		±	U4c'6c'4t'	0
D459	110100111 0	DC4c'	1101001110	C4c'	−	C4c'	+2
D460	001100111 0	BU4c'6c'4t'	0011001110		±	U4c'6c'4t'	0
D461	101100111 0	DC4c'	1011001110	C4c'	−	C4c'	+2
D462	011100111 0	DC4c'	0111001110	C4c'	−	C4c'	+2
D463	111100111 0	FV5v'8v'	1111001110	V5v'8v'	−	V5v'8v'	+4
D464	000010111 0	DM4t5t8mDI	0001101100	M4t	+	M4t	−2
D465	100010111 0	BU4c'6c'4t'	1000101110		±	U4c'6c'4t'	0
D466	010010111 0	BU4c'6c'4t'	0100101110		±	U4c'6c'4t'	0
D467	110010111 0	DC4c'	1100101110	C4c'	−	C4c'	+2
D468	001010111 0	BU4c'6c'4t'	0010101110		±	U4c'6c'4t'	0
D469	101010111 0	DC4c'	1010101110	C4c'	−	C4c'	+2
D470	011010111 0	DC4c'	0110101110	C4c'	−	C4c'	+2
D471	111010111 0	FV5v'8v'	1110101110	V5v'8v'	−	V5v'8v'	+4
D472	000110111 0	BU4c'6c'4t'	0001101110		±	U4c'6c'4t'	0
D473	100110111 0	DC4c'	1001101110	C4c'	−	C4c'	+2
D474	010110111 0	DC4c'	0101101110	C4c'	−	C4c'	+2
D475	110110111 0	FV5v'8v'	1101101110	V5v'8v'	−	V5v'8v'	+4
D476	001110111 0	DC4c'	0011101110	C4c'	−	C4c'	+2
D477	101110111 0	FV5v'8v'	1011101110	V5v'8v'	−	V5v'8v'	+4
D478	011110111 0	FV5v'8v'	0111101110	V5v'8v'	−	V5v'8v'	+4
D479	111110111 0	DH5v6cBEHI	1011001000	H	+	H	−2
D480	000001111 0	DM5qAEHI	1000111000	M4t	+	M4t	−2
D481	100001111 0	BU4c'6c'4t'	1000011110		±	U4c'6c'4t'	0
D482	010001111 0	BU4c'6c'4t'	0100011110		±	U4c'6c'4t'	0
D483	110001111 0	DC4c'	1100011110	C4c'	−	C4c'	+2
D484	001001111 0	BU4c'6c'4t'	0010011110		±	U4c'6c'4t'	0
D485	101001111 0	DC4c'	1010011110	C4c'	−	C4c'	+2
D486	011001111 0	DC4c'	0110011110	C4c'	−	C4c'	+2
D487	111001111 0	FV5v'8v'	1110011110	V5v'8v'	−	V5v'8v'	+4
D488	000101111 0	BU4c'6c'4t'	0001011110		±	U4c'6c'4t'	0
D489	100101111 0	DC4c'	1001011110	C4c'	−	C4c'	+2
D490	010101111 0	DC4c'	0101011110	C4c'	−	C4c'	+2
D491	110101111 0	FV5v'8v'	1101011110	V5v'8v'	−	V5v'8v'	+4
D492	001101111 0	DC4c'	0011011110	C4c'	−	C4c'	+2
D493	101101111 0	FV5v'8v'	1011011110	V5v'8v'	−	V5v'8v'	+4
D494	011101111 0	FV5v'8v'	0111011110	V5v'8v'	−	V5v'8v'	+4

FIG. 8L

Name	ABCDEFGHI K	Coding Class	Primary abcdefghij	DR Class	Pri DR	DB Class	Pri DB
D495	111101111 0	DH4c5cABGI	0011010100	H	+	H	−2
D496	000011111 0	PU4t	0000111110	U4t	−	U4t	0
D497	100011111 0	DC4c'	1000111110	C4c'	−	C4c'	+2
D498	010011111 0	DC4c'	0100111110	C4c'	−	C4c'	+2
D499	110011111 0	FV5v'8v'	1100111110	V5v'8v'	−	V5v'8v'	+4
D500	001011111 0	DC4c'	0010111110	C4c'	−	C4c'	+2
D501	101011111 0	FV5v'8v'	1010111110	V5v'8v'	−	V5v'8v'	+4
D502	011011111 0	FV5v'8v'	0110111110	V5v'8v'	−	V5v'8v'	+4
D503	111011111 0	DH3c4uACFH	0100101010	H	+	H	−2
D504	000111111 0	DC4c'	0001111110	C4c'	−	C4c'	+2
D505	100111111 0	FV5v'8v'	1001111110	V5v'8v'	−	V5v'8v'	+4
D506	010111111 0	FV5v'8v'	0101111110	V5v'8v'	−	V5v'8v'	+4
D507	110111111 0	DH1u3uADG H	0100110010	H	+	H	−2
D508	001111111 0	DVK'2mFHI	0011101000	VK'2m	+	VK'2m	−2
D509	101111111 0	DH1u3uADG H	0010110010	H	+	H	−2
D510	011111111 0	D H1mBDGI	0010110100	H	+	H	−2
D511	111111111 0	DXACFH!	0101101000	X	+	X	−2
K39	111001000 1	DMK	1110010000	MK	+	MK	−2
K43	110101000 1	DMK	1101010000	MK	+	MK	−2
K45	101101000 1	DMK	1011010000	MK	+	MK	−2
K46	011101000 1	DMK	0111010000	MK	+	MK	−2
K51	110011000 1	DMK	1100110000	MK	+	MK	−2
K53	101011000 1	DMK	1010110000	MK	+	MK	−2
K54	011011000 1	DMK	0110110000	MK	+	MK	−2
K57	100111000 1	DMK	1001110000	MK	+	MK	−2
K58	010111000 1	DMK	0101110000	MK	+	MK	−2
K60	001111000 1	DMK	0011110000	MK	+	MK	−2
K102	011001100 1	DMK	0110011000	MK	+	MK	−2
K141	101100010 1	DMK	1011000100	MK	+	MK	−2
K154	010110010 1	DMK	0101100100	MK	+	MK	−2
K166	011001010 1	DMK	0110010100	MK	+	MK	−2
K170	010101010 1	DMK	0101010100	MK	+	MK	−2
K198	011000110 1	DMK	0110001100	MK	+	MK	−2
K210	010010110 1	DMK	0100101100	MK	+	MK	−2
C508	001111111 1	FVK	0011111110	VK	−	VK	+4

FIG. 9

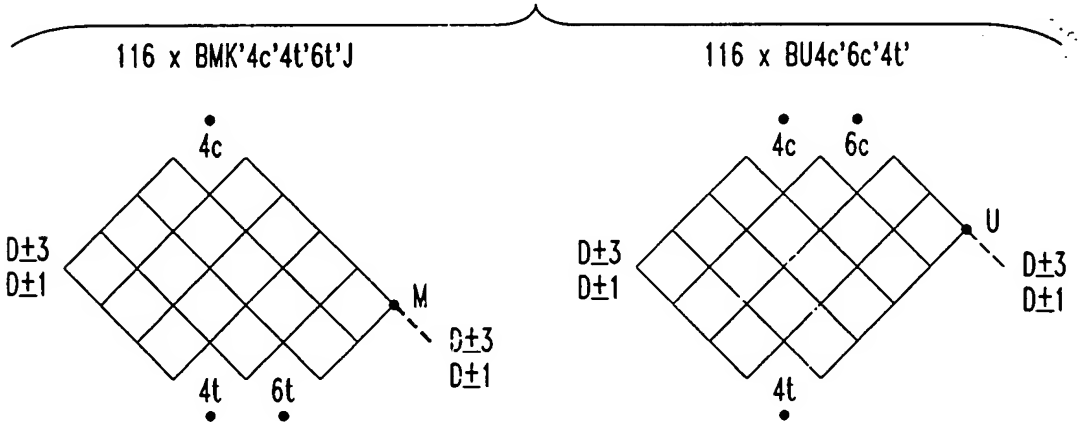

116 x BMK'4c'4t'6t'J
4c
D±3
D±1
M
D±3
D±1
4t
6t
116 x BU4c'6c'4t'
4c
6c
U
D±3
D±1
D±3
D±1
4t

FIG. 10

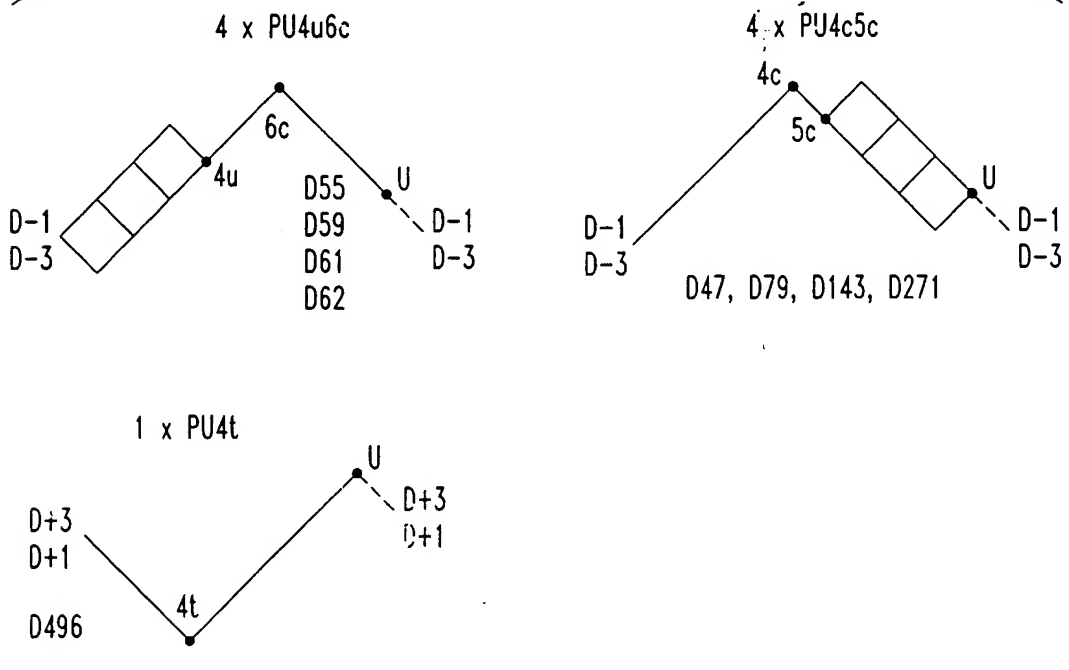

4 x PU4u6c
6c
4u
U
D-1
D-3
D55
D59
D61
D62
D-1
D-3
4 x PU4c5c
4c
5c
U
D-1
D-3
D-1
D-3
D47, D79, D143, D271
1 x PU4t
U
D+3
D+1
D+3
D+1
4t
D496

FIG. 11

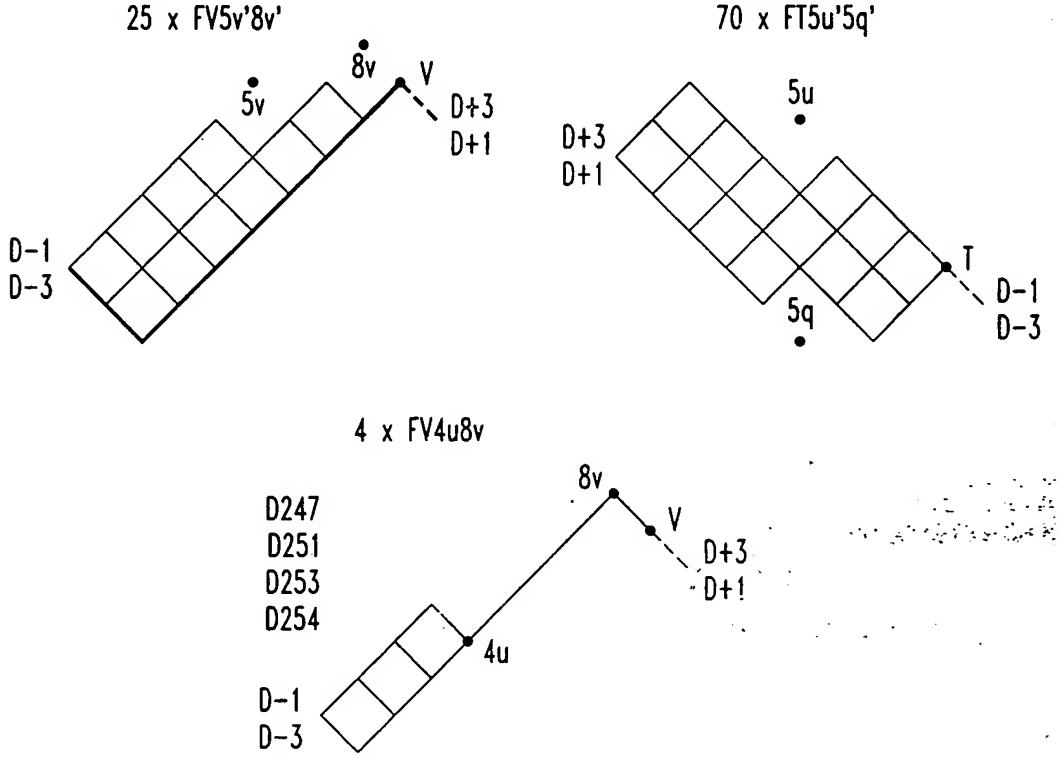

25 x FV5v'8v'
8v
V
5v
D+3
D+1
D-1
D-3
70 x FT5u'5q'
5u
D+3
D+1
T
D-1
D-3
5q
4 x FV4u8v
8v
V
D247
D251
D253
D254
D+3
D+1
4u
D-1
D-3

FIG. 12

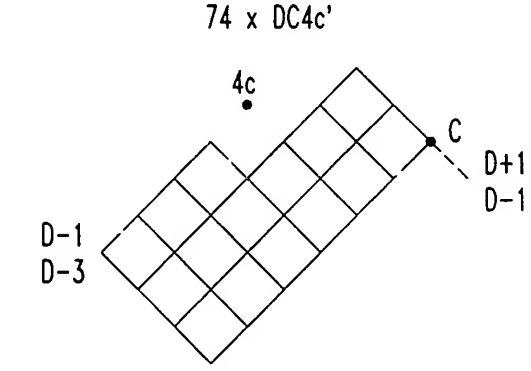
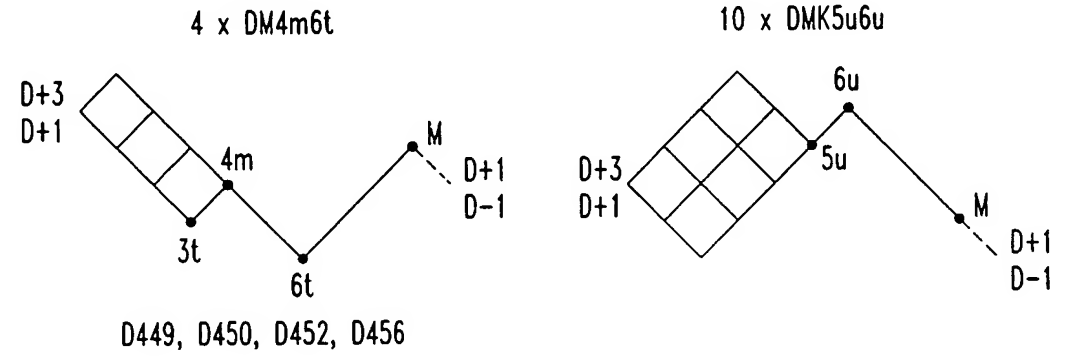

74 x DC4c'
4c
C
D+1
D-1
D-1
D-3

FIG. 13



D449, D450, D452, D456

FIG. 14

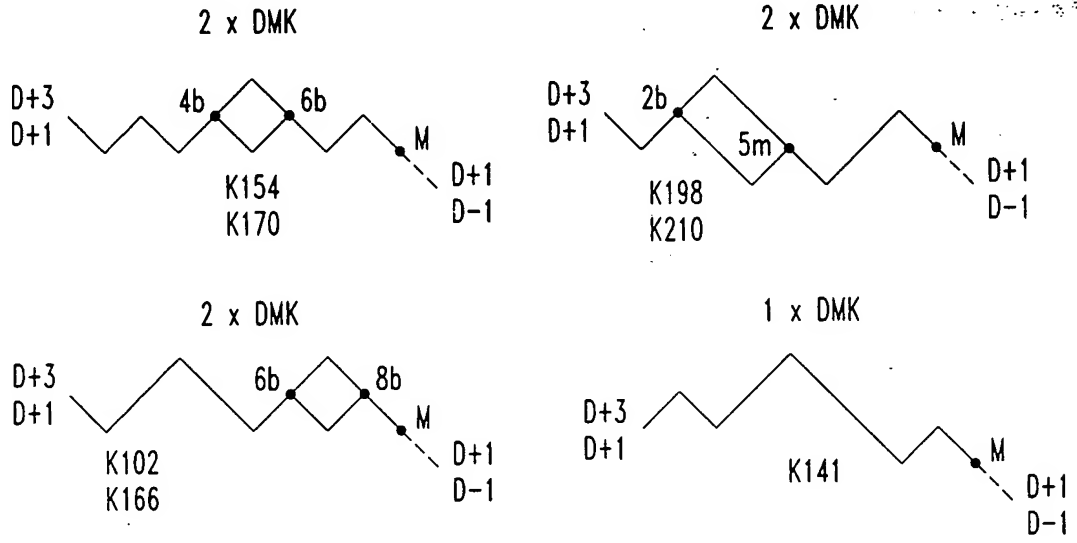


FIG. 15

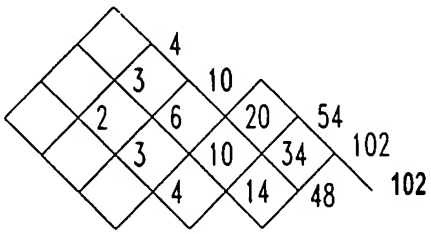


FIG. 16A

	abcdefghij	CODING CLASS
D40	0001010110	DQ4t'6mHI
D264	0001011010	DQ4m8qFG
D136	0001011100	DQ4m7q8tFG
D24	0001100110	DQ4t'6mHI
D448	0001101010	DT6qDEH
D464	0001101100	DM4t5t8mDI
D240	0001110010	DM4t8bDGHI
D432	0001110100	DM4t5t8mDI
D368	0001111000	DM4t5t8mDI
D36	0010010110	DQ4t'6mHI
D260	0010011010	DQ4m8qFG
D132	0010011100	DQ4m7q8tFG
D20	0010100110	DQ4t'6mHI
D256	0010101010	DS8sCEG
D224	0010101100	DT5q8mCEF
D509	0010110010	DH1u3uADGH
D510	0010110100	DH1mBDGI
D48	0010111000	DQ4t6mCG
D34	0100010110	DQ4t'6mHI
D258	0100011010	DQ4m8qFG
D130	0100011100	DQ4m7q8tFG
D18	0100100110	DQ4t'6mHI
D503	0100101010	DH3c4uACFH
K210	0100101100	DMK
D507	0100110010	DH1u3uADGH
D128	0100110100	DS6q8qBEF
D64	0100111000	DS6q8qBEF
D33	1000010110	DQ4t'6mHI
D257	1000011010	DQ4m8qFG
D129	1000011100	DQ4m7q8tFG
D17	1000100110	DQ4t'6mHI
D272	1000101010	DQ4t5t8qAG
D1	1000101100	DS1uEGH
D32	1000110010	DS5q6tAEI
D16	1000110100	DS4t5tAFH
D480	1000111000	DM5qAEHI
D12	0011000110	DQ4t'6mHI
D8	0011001010	DS3t4mCGI
D239	0011001100	DV4c5c8vABF
D0	0011010010	DNCDFI
D495	0011010100	DH4c5cABGI
D68	0011011000	DQ3m6t7tDF
D10	0101000110	DQ4t'6mHI
D2	0101001010	DS1m2bDGI

FIG. 16B

	abcdefghij	CODING CLASS
D72	0101001100	DQ3t4m6t7tBH
D384	0101010010	DQ7sBDFH
K170	0101010100	DMK
D66	0101011000	DQ3m6t7tDF
D6	0110000110	DQ4t'6mHI
D4	0110001010	DS2m3mBGI
K198	0110001100	DMK
D22	0110010010	DT1m3u4b5uEFI
K166	0110010100	DMK
K102	0110011000	DMK
D9	1001000110	DQ4t'6mHI
D351	1001001010	DV5v6c7vBCE
D223	1001001100	DV5v6c7vBCE
D319	1001010010	DV6v8cBCE
D416	1001010100	DT5q6t7qADI
D65	1001011000	DQ3m6t7tDF
D5	1010000110	DQ4t'6mHI
D352	1010001010	DT5q7t8tACF
D207	1010001100	DC4c5c7u'BD
D303	1010010010	DC4c5c7u'BD
D175	1010010100	DC4c5c7u'BD
D111	1010011000	DC4c5c7u'BD
D3	1100000110	DQ4t'6mHI
D320	1100001010	DQ5q7q8qAB
D192	1100001100	DQ4t6m'8tAB
D288	1100010010	DQ5q7q8qAB
D160	1100010100	DQ4t6m'8tAB
D96	1100011000	DQ4t6m'8tAB
D28	0011100010	DT2m5ul
D415	0011100100	DV5v7cABI
D508	0011101000	DVK'2mFHI
D26	0101100010	DT1m2b3m5ul
K154	0101100100	DMK
D511	0101101000	DXACFHI
D287	0110100010	DC5v6cAD
D159	0110100100	DC5v6cAD
D95	0110101000	DC5v6cAD
D63	0111000010	DC6vAEFI
D47	0111000100	DH6v7vAE FI
D14	0111001000	DT1m4uG
D25	1001100010	DT1u5ul
D191	1001100100	DV6v8vBCF
D127	1001101000	DV6v8vBCF
D21	1010100010	DT1u5ul
D255	1010100100	DH8hBDFG

FIG. 16C

	abcdefghij	CODING CLASS
D383	1010101000	DH7h8vBDFI
D13	1011000010	DT1u5ul
K141	1011000100	DMK
D479	1011001000	DH5v6cBEHI
D19	1100100010	DT1u5ul
D144	1100100100	DQ4t6m'8tAB
D80	1100101000	DQ4t6m'8tAB
D11	1101000010	DT1u5ul
D15	1101000100	DM4cCH
D31	1101001000	DU5vCEG
D7	1110000010	DT1u5ul
D399	1110000100	DC4c6u8uDI
D335	1110001000	DC4c6u8uDI

FIG. 20

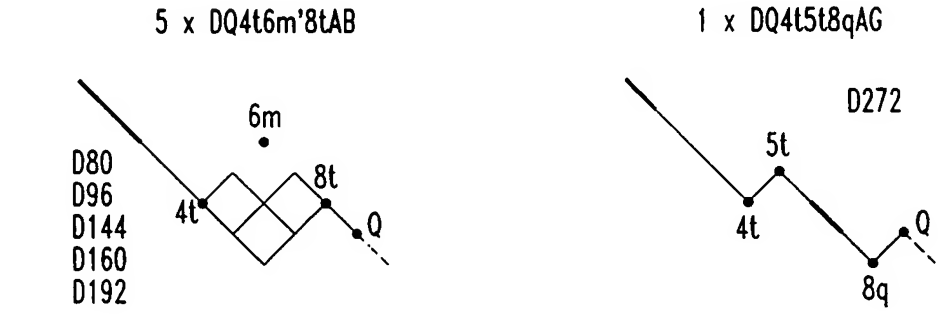


FIG. 21

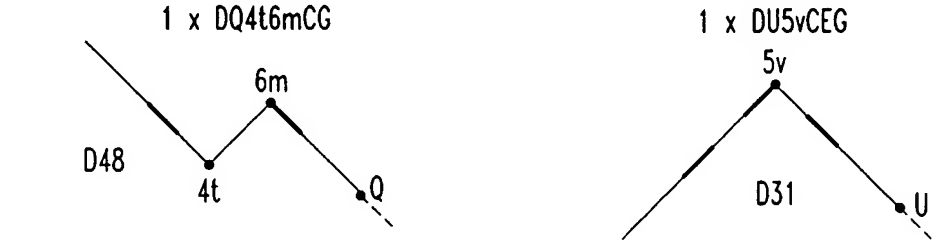


FIG. 22

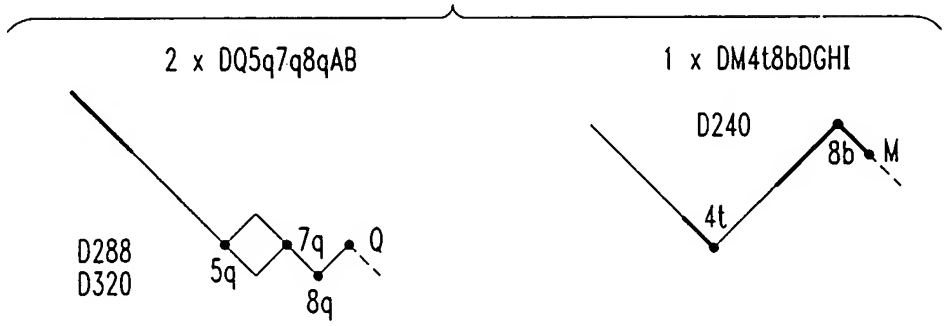


FIG. 23

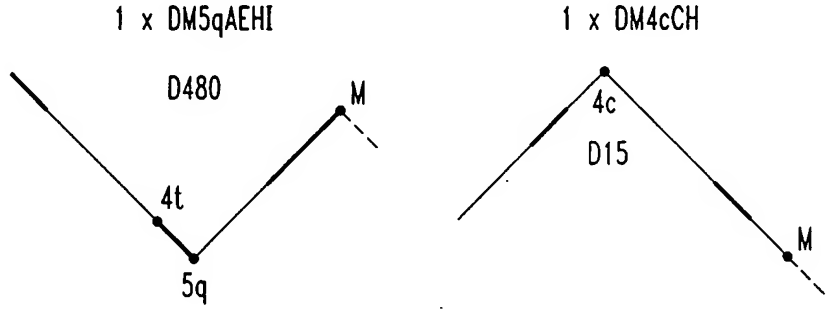


FIG. 24

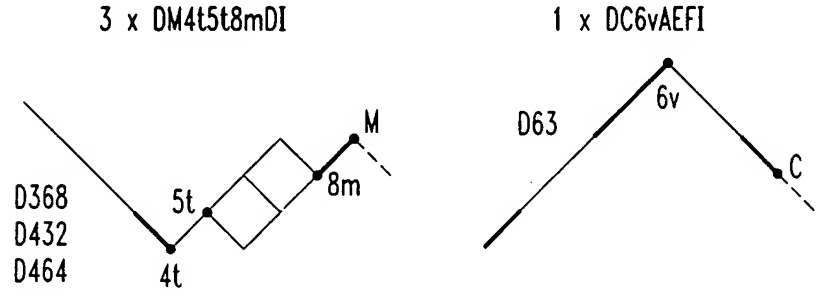


FIG. 25

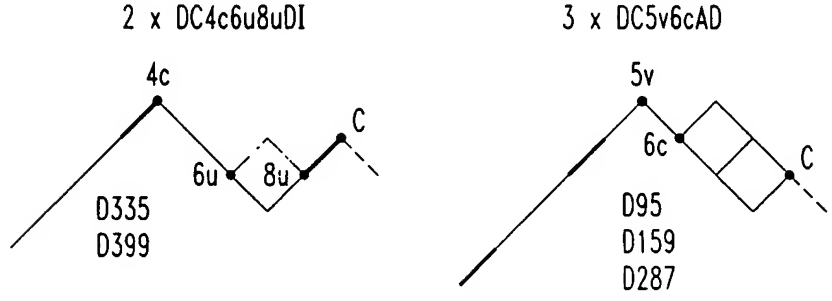


FIG. 26

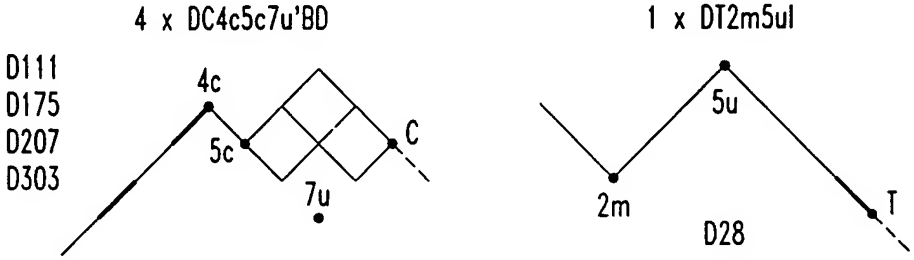


FIG. 27

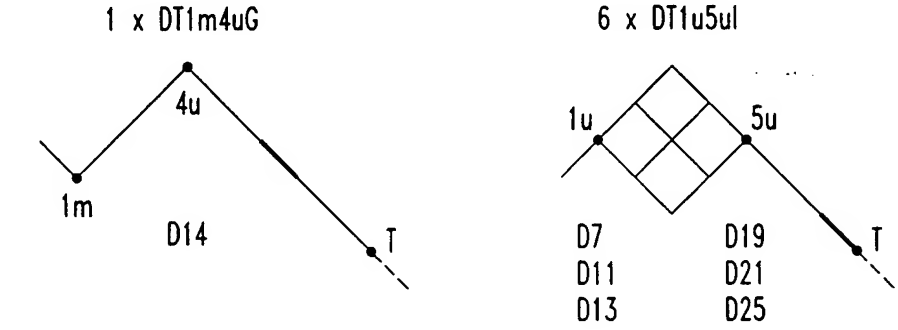


FIG. 28

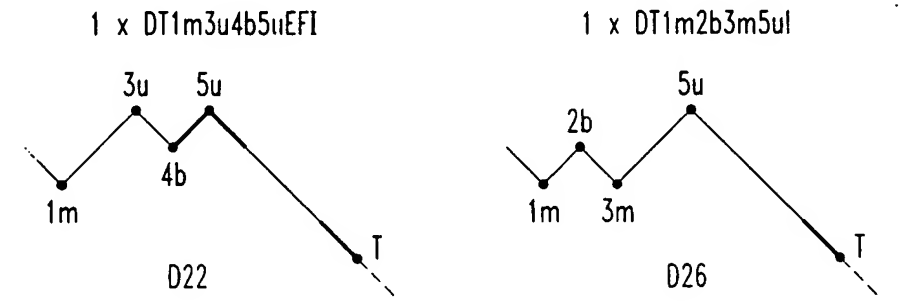


FIG. 29

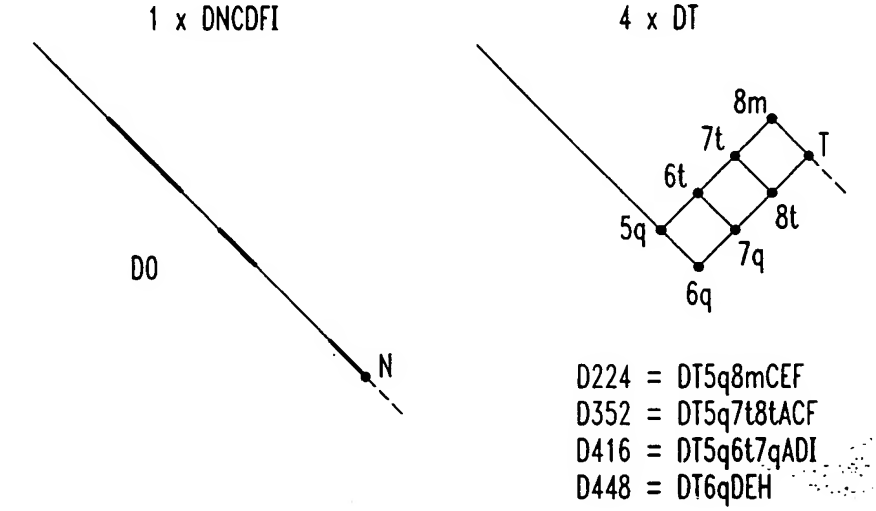
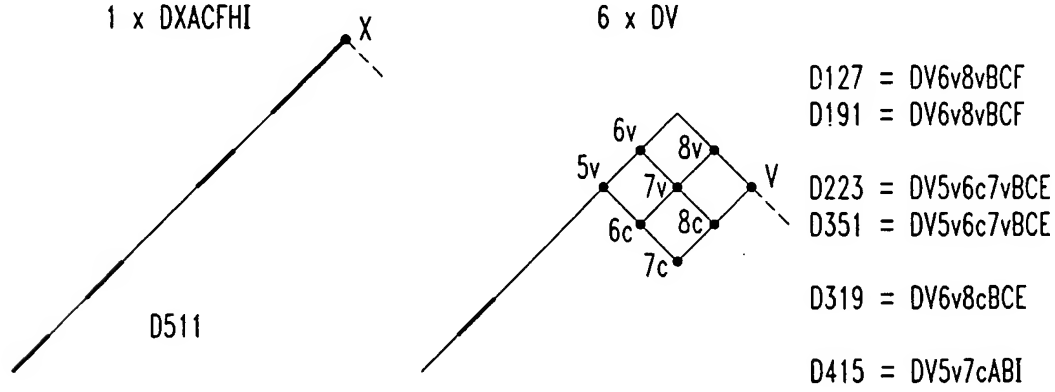

1 x DNCDFI
D0
N
4 x DT
8m
7t
T
6t
8t
5q
7q
6q
D224 = DT5q8mCEF
D352 = DT5q7t8tACF
D416 = DT5q6t7qADI
D448 = DT6qDEH

FIG. 30


1 x DXACFHI
X
D511
6 x DV
6v
8v
5v
7v
V
6c
8c
7c
D127 = DV6v8vBCF
D191 = DV6v8vBCF
D223 = DV5v6c7vBCE
D351 = DV5v6c7vBCE
D319 = DV6v8cBCE
D415 = DV5v7cABI